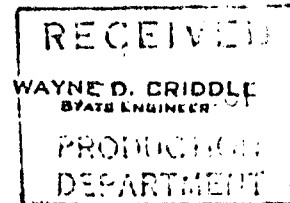




THE STATE OF UTAH  
OFFICE OF STATE ENGINEER  
SALT LAKE CITY



September 11, 1961

Phillips Petroleum Company  
Bartlesville,  
Oklahoma

Gentlemen:

RE: APPROVED APPLICATION NO. 32773

Enclosed find Approved Application No. 32773. This is your authority to proceed with actual construction work which, under Sections 73-3-10 and 73-3-12, Utah Code Annotated, 1953, as amended, must be diligently prosecuted to completion. The water shall be put to beneficial use and proof of appropriation made to the State Engineer on or before ~~February 28, 1961~~ otherwise the application will lapse.

Failure on your part to comply with the requirements of the statutes may result in forfeiture of this application.

Yours truly,

*Wayne D. Criddle*

Wayne D. Criddle  
STATE ENGINEER  
STATE CAPITOL BUILDING  
SALT LAKE CITY, UTAH

ADDRESS ALL COMMUNICATIONS TO:

js  
Encl: Copy of approved application

APPLICATION APPROVED

## NOTICE TO APPLICANT

The approval of this Application is not a certificate of change. It is merely your authority to begin construction work, which must be diligently prosecuted to completion. To secure a certificate of change under this Application proof of change must be submitted within the time limit allowed by the State Engineer. The amount of water for which certificate will be issued will depend upon the amount of water actually put to a beneficial use, not to exceed, however, the amount of water covered by the original right. For further information write the State Engineer.

## RULES AND REGULATIONS

Applicants will save time and expense by familiarizing themselves with the law before making Applications.

If the reservoir is to be located on the channel of the source from which the water is to be appropriated, it should be so stated under explanatory, and—

1. The location of the impounding dam should be described in Paragraph 16.
2. The point where the released storage will be redirected from the natural stream should be described under explanatory in accordance with the note under Paragraph 16.

When the water is to be stored in other than the natural channel of the source from which it is to be appropriated, it should be so stated under explanatory, and—

1. The point of diversion from the supplying source should be described in Paragraph 16.
2. The intersection of the longitudinal axis of impounding dam and centerline of stream channel or drainage and a similar point where the released storage will be redirected from a natural channel should be described under explanatory in accordance with the note under Paragraph 16.

In all cases Paragraphs 17 to 27, incl., should describe the proposed diverting and carrying works, exclusive of natural channels, even if already constructed in whole or in part.

If it is proposed to collect the water of a number of springs or other sources at a common point, said point should be described as the point of collection in Paragraph 16, and the point of diversion from each source should also be described under explanatory in accordance with the note in Paragraph 16. The quantity of water sought from each source should be indicated under explanatory, the total equaling the quantity specified in Paragraphs 12 or 13. Where the source of supply is in reality a spring area, the point of diversion is the point where the water is collected; in such case the exterior boundary of the spring area must be described under explanatory by metes and bounds and located with reference to the same point as used in describing the point of collection and as outlined by the note under Paragraph 16.

No enlargement of an original water right may be made by a change Application, either as to quantity of water covered, period of use or otherwise.

When there are two or more coapplicants the Application must be accompanied by a power of attorney.

The applicant's permanent address should be given in Paragraph 2, and the State Engineer notified promptly of any change in address; otherwise applicant may lose rights initiated by Application by failing to receive notices sent from the State Engineer's office.

No Application or other paper pertaining to an Application will be marked received unless accompanied with the required filing fee.

Applications accepted and numbered by the State Engineer, when returned to applicant for correction or additions, must be amended with red ink. Erasures must not be made, but any matter may be eliminated by running a red line through it. Corrected Applications must be resubmitted to the State Engineer's office, within sixty days from the date of State Engineer's letter returning Application for correction; otherwise the priority of the right to change will be brought down to date corrected Application is resubmitted.

Applicants will be informed by the State Engineer's office when cost of publishing notice of Application is due, and must advance cost within sixty days after date of notice, otherwise Application will lapse.

## Fees Required by Law Payable to State Engineer

|   |        |
|---|--------|
| For examining and filing Applications for change of point of diversion, place and nature of use.....    | \$2.50 |
| For approving and recording Applications for change of point of diversion, place and nature of use..... | \$2.50 |
| For filing written proof of change.....   | \$1.00 |
| For examining maps, profiles and drawings that are part of the proof of change.....                     | \$5.00 |
| For issuing certificate of change.....  | \$1.00 |

NOTE—In addition to the above fees applicants must pay the cost of publication of "Notice to Water Users" concerning the proposed change.

20. The length of the diverting channel, exclusive of laterals, will be 15,000 feet  
(If an existing channel is used give only the length of that part used under this Application)
21. The top width of the diverting channel will be (if a ditch) XX feet
22. The bottom width of the diverting channel will be (if a ditch) XX feet
23. The depth of water in the diverting channel will be (if a ditch) XX feet
24. The width of diverting channel will be (if a flume) XX feet
25. The depth of water in the diverting channel will be (if a flume) XX feet
26. The diameter of the diverting channel will be (if a pipe) 12.75 inches inches
27. The grade of the diverting channel will be 2.4 feet per thousand
28. The point at which it is proposed to return the water is situated (See note under 16) XX

29. The water is to be used for the same purposes as specified in the original Application No. 32773

NOTE—If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and extent of proposed use. If for power give number, size and make of wheels, head under which they will operate, total H. P. to be developed and place where power will be used.

30. The character of the soil to be irrigated is XX; subsoil XX

NOTE—Number 30 is to be filled in only when proposed change is for irrigation.

31. If paragraph 12 designates that only part of the right described in paragraph 1 to 11 inclusive is to be changed, designate the status of the water so affected by this change as to its being abandoned or used as heretofore.

## EXPLANATORY

NOTE—Paragraph 13 on page 1 must not be used except when storage is contemplated; in such case Paragraph 14 should indicate the time in each year during which the water will be released and used. The lands to be inundated by the reservoir must be described in the space below this note as nearly as may be and by government subdivisions if upon surveyed land, and the area of the reservoir when at full stage should be given in acres; the height of the impounding dam must also be specified.

The following additional facts are set forth in order to define more clearly the full purpose of the proposed change:

The original Application No. 32773 specified        points of diversion situate in Section 5, T. 41S., R. 24E., San Juan County, Utah, and bears the following notation: "Diversion will be from one or more or all of the above diversion points. Water from the several diversion points will be commingled in conveyance works or in use. The applicant proposes to divert water from the San Juan River partly or wholly by means of infiltration wells, pits or horizontal galleries, dug in the alluvial fill within the stream valley. The exact number, depth, diameter, spacing and yield of such wells, pits or galleries will be determined during the project construction; however, the aggregate withdrawal rate will not exceed that specified." The purpose of this Change Application is to secure approval of additional alternative points of diversion as hereinafter specified without waiver of any rights under the original Application and without increase in the quantity of water applied for or the ultimate objective and purpose of the original Application.

See "Explanatory" continued on attached sheet.

PHILLIPS PETROLEUM COMPANY

Signature of Applicant.

BY         
Vice-President of Production

EXPLANATORY - contd. from printed form.

The additional alternative points of diversion from the source are in Section 3, T. 41S., R. 24E., San Juan County, Utah, situate at points as follows:

| <u>Diversion Point</u> | <u>From West Line</u> | <u>From North Line</u> | <u>Subdivision</u>                |
|------------------------|-----------------------|------------------------|-----------------------------------|
| 1                      | 100'                  | 1780'                  | SW $\frac{1}{4}$ NW $\frac{1}{4}$ |
| 2                      | 365'                  | 1780'                  | "                                 |
| 3                      | 630'                  | 1770'                  | "                                 |
| 4                      | 900'                  | 1620'                  | "                                 |
| 5                      | 1170'                 | 1620'                  | "                                 |
| 6                      | 1400'                 | 1600'                  | SE $\frac{1}{4}$ NW $\frac{1}{4}$ |
| 7                      | 1530'                 | 1600'                  | "                                 |
| 8                      | 1900'                 | 1600'                  | "                                 |
| 9                      | 2150'                 | 1620'                  | "                                 |
| 10                     | 2400'                 | 1700'                  | "                                 |
| 11                     | 2640'                 | 1750'                  | "                                 |
| 12                     | 2900'                 | 1810'                  | SW $\frac{1}{4}$ NE $\frac{1}{4}$ |
| 13                     | 3180'                 | 1900'                  | "                                 |
| 14                     | 3400'                 | 1950'                  | "                                 |
| 15                     | 3650'                 | 2050'                  | "                                 |
| 16                     | 3870'                 | 2225'                  | "                                 |
| 17                     | 4100'                 | 2450'                  | SE $\frac{1}{4}$ NE $\frac{1}{4}$ |
| 18                     | 4250'                 | 2700'                  | NE $\frac{1}{4}$ SE $\frac{1}{4}$ |
| 19                     | 4380'                 | 2975'                  | "                                 |
| 20                     | 4420'                 | 3250'                  | "                                 |

*Review  
Hawkins  
file/SS*

October 13, 1961

AIRMAIL

Mr. Clair M. Senior  
Senior & Senior  
Attorneys at Law  
10 Exchange Place  
Salt Lake City, Utah

Re: Alternate or Additional Source of Water  
for the Ratherford Unit, San Juan County, Utah

Dear Clair:

Herewith in triplicate is completed and signed application to the Utah State Engineer for additional and alternate points of diversion for water for water-flood purposes in the Ratherford Unit. I would appreciate it if you would handle this matter with the Water Engineer and, as diplomatically as possible, urge upon him the importance of expediting the matter as much as possible.

Having gotten these papers back from the Production Department too late to get a check for the filing fee, I would ask that you advance the fee and, upon being billed, I will send you the check.

If you need any additional information, please advise.

Very truly yours,

RMW:jd  
Enclosures

R. M. Williams

cc - Mr. Shofner Smith ✓

RECEIVED

# Application for Permanent Change of Point of Diversion, Place and Nature of Use of Water STATE OF UTAH

Do not fill out this blank until you have read carefully and thoroughly understand the "Rules and Regulations" on the back hereof and all the notes in the body of it.

For the purpose of obtaining permission to permanently change the point of diversion, ~~place or nature of use of~~ (Strike out written matter not needed)

water right acquired by original Application No. 32773  
(Give No. of Application, certificate of appropriation, title and date of Decree or other identification of right)

to that hereinafter described, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

- The name of the applicant is Phillips Petroleum Company
- The post-office address of the applicant is Bartlesville, Oklahoma
- †The flow of water which ~~has been or~~ was to have been used in second-feet is 8
- †The quantity of water which has been or was to have been used in acre-feet is XX
- †The water ~~has been or~~ was to have been used each year from January 1 to December 31 incl.  
(Month) (Day) (Month) (Day)
- †The water has been or was to have been stored each year from XX to XX incl.  
(Month) (Day) (Month) (Day)
- The drainage area to which source of supply belongs is \_\_\_\_\_ (Leave blank)
- The direct source of supply is Underground water and subsurface flow of San Juan River  
in San Juan County.
- †The point<sup>s</sup> of diversion as described in the original Application ~~or the point at which the water has been diverted if~~ <sup>are</sup> situated at a point s. in Section 5, T. 41S., R. 24E as more particularly set out in the original Application No. 32773.

- †The water involved ~~has been or~~ was to have been used for the following purposes:

Pressure maintenance and secondary recovery purposes

Total XX Acres.

NOTE—If for irrigation, give legal subdivision of land and total acreage which has been or was to have been irrigated. If for other purposes, give nature, place and extent of use or proposed use.

- †The point at which water has been or was to have been returned to the stream channel is situated as follows: XX

NOTE—The above space is to be filled in only when all or part of the water is returned to the natural stream or channel.

## The Following Changes Are Proposed

- The flow of water to be changed in cubic feet per second is No change
- The quantity of water to be changed in acre-feet is XX
- The water will be used each year from January 1 to December 31 incl.  
(Month) (Day) (Month) (Day)
- The water will be stored each year from XX to XX incl.  
(Month) (Day) (Month) (Day)
- The point at which it is now proposed to divert the water is situated (See note) See explanatory

NOTE—The "point of diversion," or "point of return," must be located by course and distance or by rectangular distances with reference to some regularly established United States land corner or United States mineral monument if within a distance of six miles of either, or if a greater distance, to some prominent and permanent natural object.

- The proposed diverting and conveying works will consist of wells and conveyance pipe as explained in original Application No. 32773

- The cross-section of the diverting channel will be. XXXXXXXXXX ○  
(Strike out ones not needed)

- The nature of the diverting channel will be: earth, wood, iron, concrete.  
(Strike out the ones not needed)

†Strike out written matter not needed.



Copied for  
C. M. Boles  
11-3-61 SS:mll

THE STATE OF UTAH  
OFFICE OF STATE ENGINEER

SALT LAKE CITY  
October 30, 1961

WAYNE D. CRIDDLE  
STATE ENGINEER

Issue Date: October 30, 1961  
Expiration Date: April 30, 1962

Phillips Petroleum Company  
c/o Senior and Senior, Attorneys  
#10 Exchange Place  
Salt Lake City 11, Utah

Gentlemen:

RE: APPROVED APPLICATION NO. 32773 AND  
CHANGE APPLICATION NO. a-4025

This is to acknowledge receipt of your Permanent Change Application No. a-4025, which proposes to change the point of diversion of 8.0 sec.-ft. of water initiated by Application No. 32773. The water was to have been diverted from ten 12.75-inch O.D. wells located within  $S\frac{1}{2}N\frac{1}{2}NE\frac{1}{4}$  and  $SE\frac{1}{4}NE\frac{1}{4}$  of Sec. 5, T41S, R24E, SLB&M. It is now proposed to divert the 8.0 sec.-ft. of water from a total of one well 12.75 inches O.D. between 35 and 50 ft. deep, ten of these being the same as heretofore described and thirty-one wells to be located within  $NW\frac{1}{4}$  Sec. 3,  $S\frac{1}{2}$  Sec. 4,  $NW\frac{1}{4}$  Sec. 5, T41S, R24E, SLB&M. The water is to be used for pressure maintenance and secondary recovery purposes as heretofore.

You have requested permission to proceed immediately with the drilling of these additional 31 wells. This letter grants you that privilege with the understanding that all risks as regards water rights are being assumed by you.

If other than new standard casing is to be used in these wells, such casing must be inspected and approved by a representative from this office. All wells must be so constructed and finished that they may be readily controlled at all times, in order to prevent waste of underground water. Wells must be drilled and cased in such a manner that will prevent the infiltration of contaminated water into them.

The driller must be bonded and have a current permit from the State Engineer. Before commencing, he must give this office notice as to the day he will begin drilling. Also, within 30 days after the well has been completed or abandoned, he must file a well driller's report for each well. These reports are to contain accurate and complete information regarding the work done and become part of the files in this office pertaining to the above-numbered things.

This is permission for a licensed driller to begin drilling your wells.

Please note that the expiration date of this letter is April 30, 1962.

Yours truly,

*Wayne D. Criddle*  
Wayne D. Criddle  
STATE ENGINEER

RECEIVED

1961

SENIOR

ds

Copied for  
C. M. Boles  
4-18-62 EFL:m

**THE STATE OF UTAH**  
OFFICE OF THE STATE ENGINEER  
SALT LAKE CITY

March 26, 1962



Phillips Petroleum Company  
Bartlesville,  
Oklahoma

Gentlemen:

RE: APPROVED APPLICATION NO. a-4025

Enclosed find Application No. a-4025 which has been approved by me. This approved Application is your authority to proceed with actual construction work which, under Sections 73-3-10 and 73-3-12, Utah Code Annotated 1953, as amended, must be diligently prosecuted to completion. The water shall be put to beneficial use and proof of appropriation filed with the State Engineer, as provided in the original application as amended by this approved change Application.

Failure on your part to comply with the requirements of the statutes may result in forfeiture of your Application.

Yours truly,

A handwritten signature in cursive script that reads "Wayne D. Criddle".

Wayne D. Criddle

ADDRESS ALL COMMUNICATIONS TO:

STATE ENGINEER  
403 STATE CAPITOL  
SALT LAKE CITY, UTAH

js

Encl: Copy of approved application

**CHANGE APPLICATION APPROVED**

(Form for pending original Application)



December 2, 1965

Ratherford Unit, San Juan County, Utah -  
Application No. 32773 - Request for Extension  
of Time to Make Proof of Appropriation

Mr. R. M. Williams (2)  
Legal Department

Phillips' Application No. 32773 to the State of Utah for appropriation of water to be used in the Ratherford Unit project was approved on September 5, 1961. One condition of the approval was that a proof of appropriation be submitted by February 28, 1963. Subsequently an extension was granted and the proof of appropriation is now due on February 28, 1966. It is not possible to determine at this time the quantity of water that will ultimately be required and this is to request your assistance in obtaining an additional extension of time before it is necessary to file the proof.

Attached is a copy of Mr. C. M. Boles' letter dated November 23, 1965, which transmits a copy of an unexecuted application for an extension of time for filing the proof from February 28, 1966, to February 28, 1971. Please examine the application as to form and, if it is acceptable, forward it to Mr. J. E. Chrisman, who will arrange for its execution. If it is your opinion that the legal firm of Senior and Senior should file the application, as was done previously, please so advise and the executed application will be returned to you.

Stofner Smith

JEC:gm  
Attach.

cc: Messrs. C. W. Corbett  
Attn. T. L. Osborne  
C. M. Boles

12/8/65  
HSC

JK

JB

APPLICATION TO APPROPRIATE WATER  
STATE OF UTAH

NOTE:—The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation ☐ Domestic ☐ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☒ Other Uses ☐

2. The name of the applicant is..... **PHILLIPS PETROLEUM COMPANY** .....

3. The Post Office address of the applicant is Bartlesville, Oklahoma

4. The quantity of water to be appropriated is 8 second-feet or        acre-feet

5. The water is to be used for See Explanatory from January 1 to December 31  
(Major Purpose) (Month) (Day) (Month) (Day)

other use period. \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_  
 (Minor Purpose) (Month) (Day) (Month) (Day)

Fed. stored each year (if stored) from \_\_\_\_\_ to \_\_\_\_\_  
 (Month) (Day) (Month) (Day)

6. The drainage area to which the direct source of supply belongs is..... (Leave Blank)

7. The direct source of supply is\* Underground water and subsurface flow of San Juan River  
(Name of stream or other source)

which is tributary to Colorado River tributary to \_\_\_\_\_

Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in San Juan County, situated at a point\*

#3-S.1000 ft. and W. 750 ft.; #4-S.1000 ft. and W. 1050 ft.; #5-S.1000 ft. and W. 1350 ft.; #6-S.1000 ft. and W. 1650 ft.; #7-S.1000 ft. and W. 1950 ft.; #8-S.1000 ft. and W. 2250 ft.; #8 S.1000 ft. and W. 2550 ft.

\*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of. See Explanatory

10. If water is to be stored, give capacity of reservoir in acre-feet ..... height of dam.....  
area inundated in acres ..... legal subdivision of area inundated .....

11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:

.....Total.....Acres

12. Is the land owned by the applicant? Yes..... No.....

13. Is this water to be used supplementally with other water rights? Yes..... No.....

If "yes," identify other water rights under explanatory.

14. If application is for power purposes, describe type of plant, size and rated capacity.....

15. If application is for mining, the water will be used in Greater Aneth Area ~~near the~~  
~~oil field~~ ~~where~~ the following ores are mined oil and gas

16. If application is for stockwatering purposes, number and kind of stock watered.....

17. If application is for domestic purposes, number of families to be served.....

18. If application is for municipal purposes, name of municipality .....

19. If application is for other uses, include general description of proposed uses.....

20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. See Explanatory

21. The use of water as set forth in this application will consume 8 second-feet of water and 0 second feet will be returned to the natural stream or source at a point described as follows:

## EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

## ITEM 2

The water will be pumped from the diversion area to the oil field where the water will be injected under pressure through deep wells into the petroleum-bearing formations for pressure maintenance and secondary recovery purposes.

## ITEM 8

The point or points of diversion from the source will be in Section 5, T41S, R24E SIM, San Juan County, situated as follows: From that point at which the south bank of the river channel intersects the east line of Section 5, T41S, R24E, to that point at which the South bank of river channel intersects the North line of Section 5, T41S, R24E.

Diversion will be from one or more wells or infiltration galleries to be drilled in the alluvial fill and to be located as close to the South bank of the river channel as is practical within the east-west limits as above defined. Specific location and number of diversion points will be determined by a hydrographic survey and/or producing characteristics of wells to be drilled. The aggregate withdrawal, the rate of which is not to exceed that specified in this application, will be commingled in a conveyance works described in greater detail herein.

## ITEM 9

The diverting and carrying works will consist of 12-1/4" diameter wells, cased with 35 to 50 feet of 8-5/8 inch outside diameter pipe to be drilled to depths of from 35 feet to 50 feet and about 14,000 feet of 10-3/4 inch conveyance pipe to places of use.

## ITEM 20

Township 41 South, Range 23 East, SIM  
S/2 Sec. 1; SE/4 Sec. 2; E/2 Sec. 11; All Sec. 12; All Sec. 13, E/2 Sec. 14, NE/4 Sec. 24.

Township 41 South, Range 24 East, SIM  
All Sections 3, 4, 5, 6, 7, 8, 9, 10; W/2 Sec. 11, W/2 Sec. 14; All Sections 15, 16, 17, 18, 19, 20, 21; NW/4, W/2 SW/4 Sec. 22; W/2 NE/4, NW/4, W/2 SW/4 Sec. 28; All Sections 29, 30; N/2 Sec. 31; N/2 Sec. 32.

Said described lands, which are in San Juan County, Utah, constitute the Ratherford portion of the Greater Aneth Area oil field.

Continued on page 4

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described.

PHILLIPS PETROLEUM COMPANY

By:

Signature of Applicant

VICE PRESIDENT OF PRODUCTION

\*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

## DECLARATION OF CITIZENSHIP

STATE OF UTAH,  
County of..... } ss

On the ..... day of ..... 19....., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

Notary Public

| Flow rate — c.f.s. |              | Cost                               |
|--------------------|--------------|------------------------------------|
| 0.0                | to 0.1.....  | \$ 10.00                           |
| over 0.1           | to 0.5.....  | 20.00                              |
| over 0.5           | to 1.0.....  | 30.00                              |
| over 1.0           | to 15.0..... | 30.00 plus \$5/cfs above 1.00 cfs. |
| over 15.0          | .....        | 100.00                             |

| Storage — acre-feet |              |  |
|---------------------|--------------|--|
| 0                   | to 20.....   | 15.00                                    |
| over 20             | to 500.....  | 30.00                                    |
| over 500            | to 7500..... | 30.00 plus \$5/500 a. f. above first 500 |
| over 7500           | .....        | 100.00                                   |

### STATE ENGINEER'S ENDORSEMENTS

1. Feb. 27, 1961 Application received by mail over counter in State Engineer's office by J.C.
2. Priority of Application brought down to, or account of
3. Jan. 27, 1961 Application fee, \$5.50, received by Rec. No. 022365
4. Mar. 10, 1961 Application photostated book 710.32 page 357, and indexed by Tme
5. Application plotted by R.S.B. 11-21 rad - (C) ad (B) ac (G)
- aac - (S) abd - (L) u b t - (I) r b d l i a b c (J) a b c f l l c b a d
6. April 7, 1961 Application examined by me
7. Application returned, or corrected by office
8. Corrected Application resubmitted over counter by mail to State Engineer's office.
9. April 7, 1961 Application approved for advertisement by me
10. June 16, 1961 Notice to water users prepared by P.K.H.
11. June 27, 1961 Publication began; was completed July 13, 1961  
Notice published in San Juan Record, Monticello, Utah
12. June 27, 1961 Proof slips checked by S.D.G.
13. Application protested by
- July 25, 1961. Publisher paid ms. 22-1016-22
14. Hearing held by
15. Field examination by
16. Sept 5, 1961 Application designated for approval rejection [initials]
17. Sept. 11, 1961 Application copied or photostated by T.E. proofread by
18. Sept. 11, 1961 Application approved rejected
19. Conditions:  
This Application is approved, subject to prior rights, as follows:

  - a. Actual construction work shall be diligently prosecuted to completion.
  - b. Proof of Appropriation shall be submitted to the State Engineer's office by Feb. 28, 1963
  - c.
- Wayne D. Criddle State Engineer.
20. Time for making Proof of Appropriation extended to
21. Proof of Appropriation submitted.
22. Certificate of Appropriation, No., issued

Application No. 3-2773

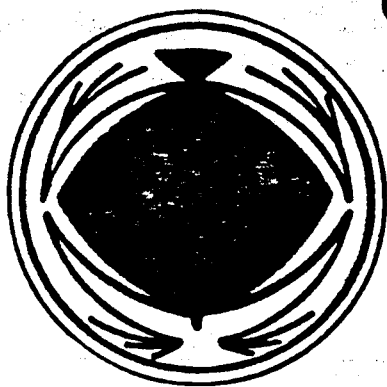
## EXPLANATORY CONTINUED

The use of the applied for water for the planned pressure maintenance and secondary recovery operations will permit the recovery of substantial quantities of oil and gas which would otherwise not be recovered.

## NOTICE TO APPLICANT

All waters in this state, whether above or under the ground, are the property of the public, subject to all existing rights to the use thereof. No appropriation of the unappropriated public water may be made and no rights to the use thereof shall be recognized except Application for such appropriation first be made to the State Engineer.

The approval of this Application is not a Certificate of Appropriation. It is merely your authority to begin construction work, which must be prosecuted diligently to completion. To secure a Certificate of Appropriation under this Application, Proof of Appropriation must be submitted within the time limit allowed by the State Engineer. The amount of water for which Certificate will be issued will depend upon the amount of water actually put to a beneficial use, not to exceed, however, the amount of water specified in this Application. Proof of Appropriation must be made in accordance with the requirements of the law. For further information write the State Engineer.



# ABAJO ARCHÆOLOGY

WILLIAM E. DAVIS, Director

August 24, 1984

Mr. Bob Hogg  
Production Engineer  
Phillips Oil Company  
P.O. Box 1150  
Cortez, Colorado  
81321

Dear Bob:

Please find enclosed the report entitled "The Cultural Resource Inventory and Realignment of Phillips Oil Company Proposed "J" Injection Line and Well# 29-22 Access Road, San Juan County, Utah". As detailed in the report, no cultural resources were encountered during the inspection of Well# 29-22 access road. In addition, the proposed "J" injection line was re-routed 15 meters to the south of Site SJC-1106. No cultural resources were observed along the realignment corridor. Archaeological clearance is recommended for the Ratherford Unit Development projects.

Invoice No. 220 is enclosed for the archaeological services. The invoice includes the survey Ms. Foldi performed on Well# 29-22 and associated access road/flow line right-of-way. Please contact me if you have any questions concerning the invoice.

Copies of this report have been submitted to Mr. Terry Del Benee, BIA Archaeology Department and to Mr. Anthony Klésert, Navajo Nation Cultural Resource Management Program.

Sincerely,

*William E. Davis*

William E. Davis

THE CULTURAL RESOURCE INVENTORY AND REALIGNMENT  
OF PHILLIPS OIL COMPANY PROPOSED "J" INJECTION LINE  
AND WELL# 29-22 ACCESS ROAD, SAN JUAN COUNTY, UTAH

Prepared For:

Phillips Oil Company  
Cortez, Colorado

Prepared and Submitted By:

William E. Davis, Director  
Abajo Archaeology  
P.O. Box 100  
Bluff, Utah 84512

August 1984

Navajo Nation Antiquities Permit No. 1984-24  
United States Department of the Interior  
Bureau of Indian Affairs  
Branch of Environmental Quality Control Authorization  
BIA-NAO-84-ABA-048-1  
and  
Utah State Permit No. U-84-8-5-i

## INTRODUCTION

On August 22, 1984, a cultural resource inventory and realignment of Phillips Oil Company's proposed "J" injection line and well # 29-22 access road were conducted within the Ratherford Unit south of Montezuma Creek, southeast San Juan County, Utah. The surveys were carried out at the request of Mr. Bob Hogg, Phillips Oil Company Engineer. Mr. Hogg assisted the archaeologist in the field by flagging the proposed well # 29-22 access road and re-staking the proposed "J" injection line.

The purposes of the survey were to verify the presence of and document any cultural resources within the proposed project impact areas. The accomplishment of these objectives fulfills compliance requirements for the presentation of archaeological and historical resources set forth by the American Antiquities Act of 1906, the Historic Preservation Act of 1966, the National Environmental Policy Act of 1969, Executive Order No. 11593 of 1971, the Archaeological and Historical Conservation Act of 1974, and the Archaeological Resources Protection Act of 1979. Cultural resources occurring on Navajo Tribal Lands are further protected by Tribal Laws: CJA-16-72 of 1972, Res. ACAP-86-77 of 1977, and the Navajo Tribal Code, Title Nineteen, Sections 1002 and 1004.

Fieldwork was conducted under the Navajo Nation Antiquities Permit No. 1984-24, the USDI-BIA, Environmental Quality Authorization No. BIA-NAO-84-048-1, and State of Utah Permit No. U-84-5-i, issued to Abajo Archaeology, Bluff, Utah. The surveys were performed by William E. Davis, Director, Abajo Archaeology.

## DESCRIPTION OF THE PROJECT AREA

Phillips Oil Company well location # 29-22 and associated access road were originally surveyed between the period of August 4-11, 1984 by Abajo Archaeologist Debra Foldi (1984). No significant cultural resources were discovered. However, following this survey, Phillips Oil Company decided to re-align the access road a short distance to the southeast. The newly proposed access road measures 1000 feet in length and is situated in the SWSENE quarter of Section 29, Township 41 south, Range 24 east (USGS White Mesa Village Quadrangle, Utah, 1962, 15') (Figure 1).



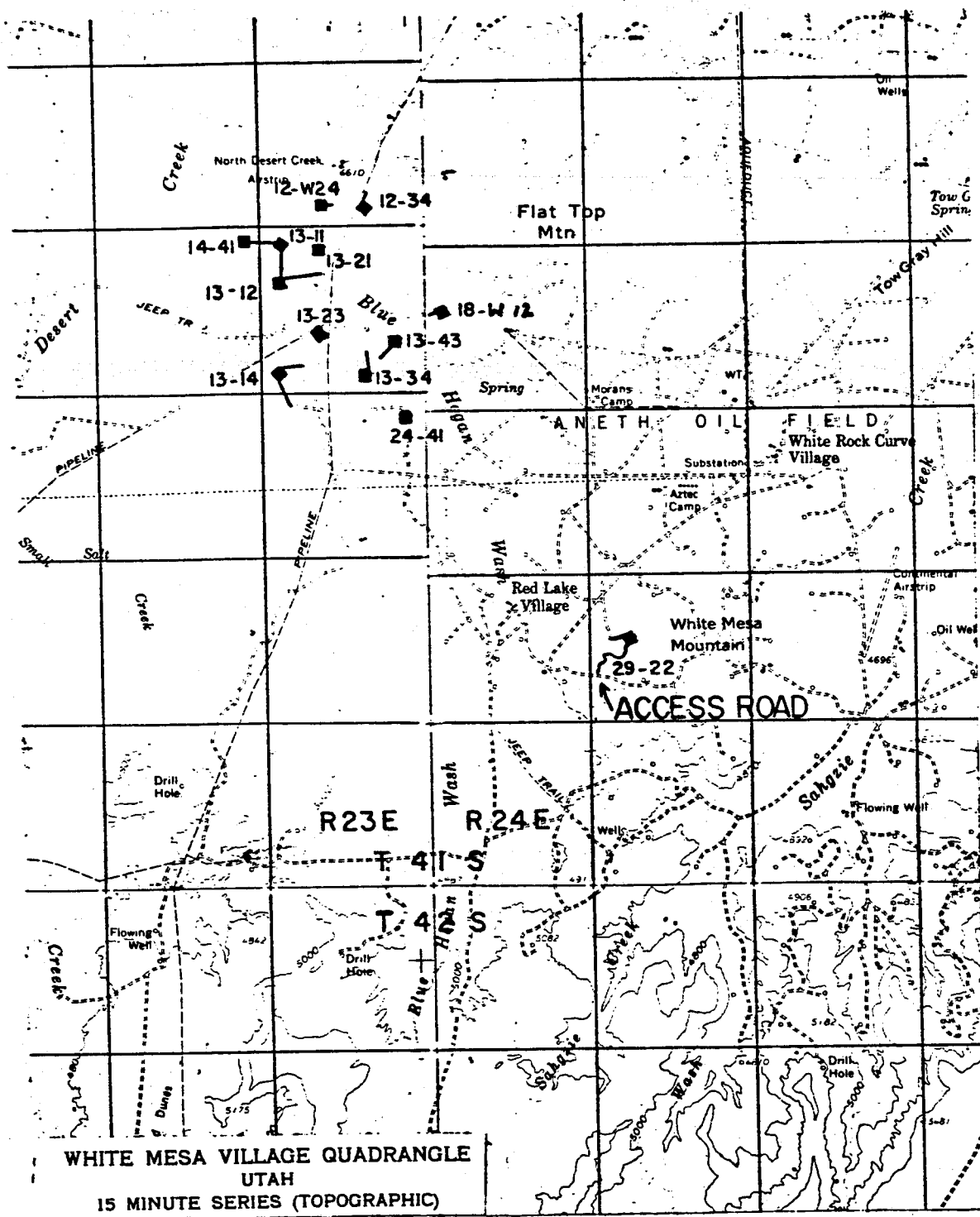


Figure 1. Locations of proposed well locations, access roads and flow line routes.

Map Scale: 1:62,500

One archaeological site was encountered during the survey of the "J" injection line (Foldi 1984). The site, SJC-1106, had been previously recorded by San Juan College Cultural Resources Management Program. The original injection line crosses through the extreme southwest portion of the site (Figure 2). Two alternatives were proposed to Phillips Oil Company for this 100 meter section of the injection line: (1) archaeological monitoring during construction activities, or (2) to reroute the injection line in order to avoid the site area (Foldi 1984). The latter choice of avoidance was adopted by Phillips Oil Company.

#### METHODOLOGY

A 100 foot right-of-way was surveyed along the proposed well # 29-22 access road and a 50 foot right-of-way was inspected along the injection line realignment. The access road and injection line realignment were flagged by Phillips Oil Company prior to archaeological inspection.

#### CULTURAL RESOURCE INVENTORY RESULTS

##### Well # 29-22 Access Road

No cultural resources were encountered during the survey of the access road.

##### "J" injection line realignment

The propose "J" injection line was re-routed 15 meters to the south of site SJC-1106. No cultural resources were observed.

#### RECOMMENDATIONS

No cultural resources were encountered during the

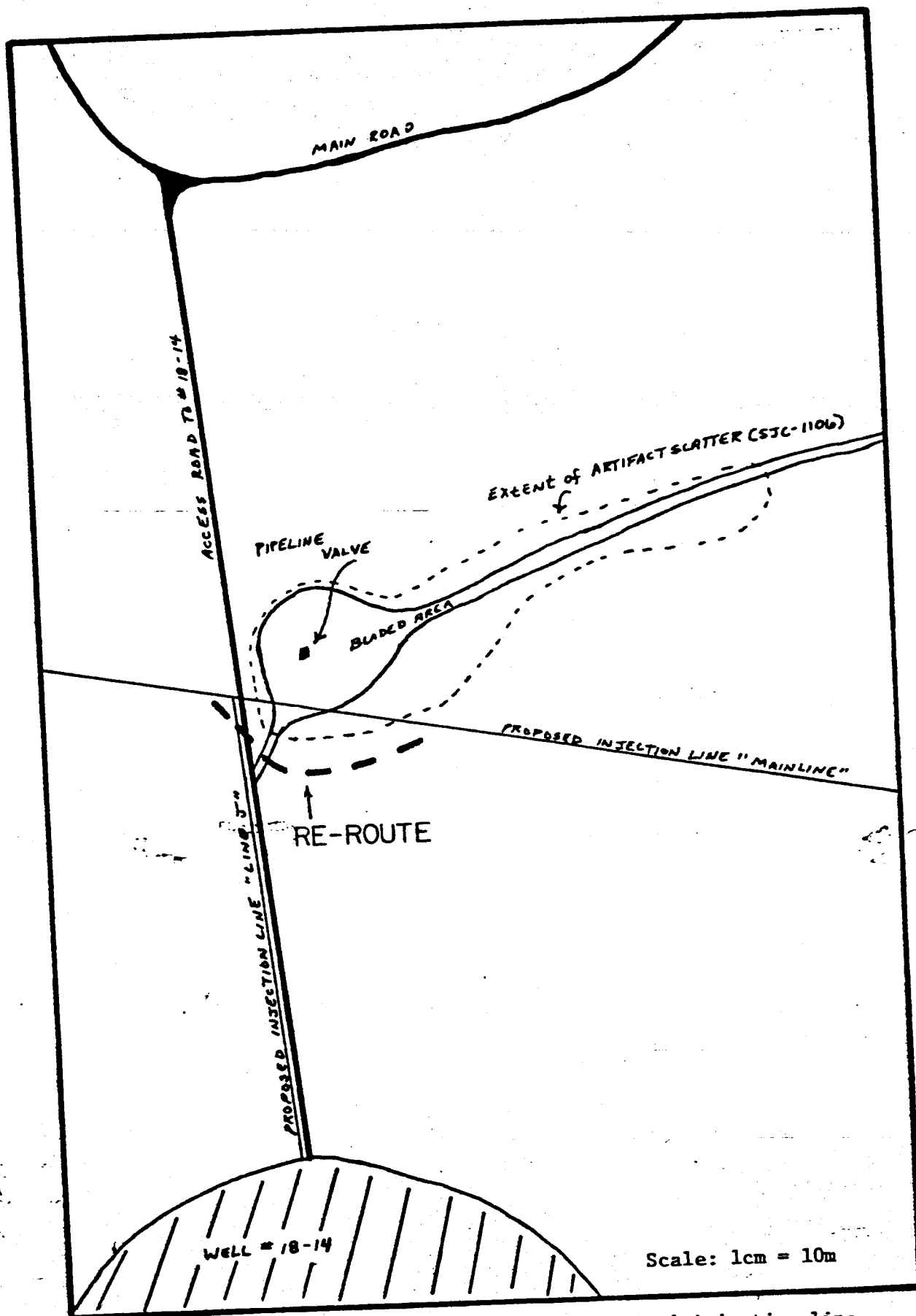


Figure 2. Map showing relationship of proposed injection line route and archaeological site - SJC-1106. Site Location: Center of E 1/2, W 1/2, SW 1/2 of Section 18, T 41 S - R 24 E, San Juan County, Utah.

archaeological survey of Phillips Oil Company well # 29-22 access road and the realignment of "J" injection line. Archaeological clearance is recommended for the proposed Ratherford Unit development projects.

#### REFERENCES CITED

Foldi, Debra

1984 Archaeological Surveys of 13 Proposed Well Locations, their Associated Access Roads and Flow Line Routes, and 9 Miles of Proposed Water Injection Line Routes in San Juan County, Southeastern Utah. Abajo Archaeology-- Report on file at Navajo Nation C.R.M.P. and BIA Archaeology Department, Window Rock, Arizona, and Antiquities Section, Utah Division of State History, Salt Lake City.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐OTHER ☐SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Phillips Oil Company

## 3. ADDRESS OF OPERATOR

P. O. Box 2920 Casper, Wyoming 82602

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

2130' FNL, 1370' FWL (SE NW)

At proposed prod. zone

2022' FNL, 2046' FWL (SE NW)

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

Approximately 5 miles south of Montezuma Creek, Utah

## 15. DISTANCE FROM PROPOSED\* 2022' South of Ratherford Unit lease line 1455 Acres

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

## 18. DISTANCE FROM PROPOSED LOCATION\* 1340' East

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

of #29-12

## 19. PROPOSED DEPTH

5700'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40 Acres

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4976' ungraded ground

## 22. APPROX. DATE WORK WILL START\*

November 1984

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT                 |
|--------------|----------------|-----------------|---------------|------------------------------------|
| 17-1/2"      | 13-3/8"        | 48#             | 100'          | 150 sx (Circ to surface)           |
| 12-1/4"      | 9-5/8"         | 36#             | 1600'         | 600 sx (Circ to surface)           |
| 8-3/4"       | 7"             | 23# & 26#       | 5700          | 1000 sx est. (T.O.C. approx. 2000) |

Approval is requested to directionally drill Ratherford Unit #29-22, a Desert Creek Development oil well, to increase the ultimate recovery from the Ratherford Unit. The proposed surface location is 670' from the nearest well on this lease.

BOP equipment will be operated daily and tested weekly..

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 10/10/84

BY: John R. Bage

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

A. E. Stuart

TITLE

Area Manager

DATE September 18, 1984

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

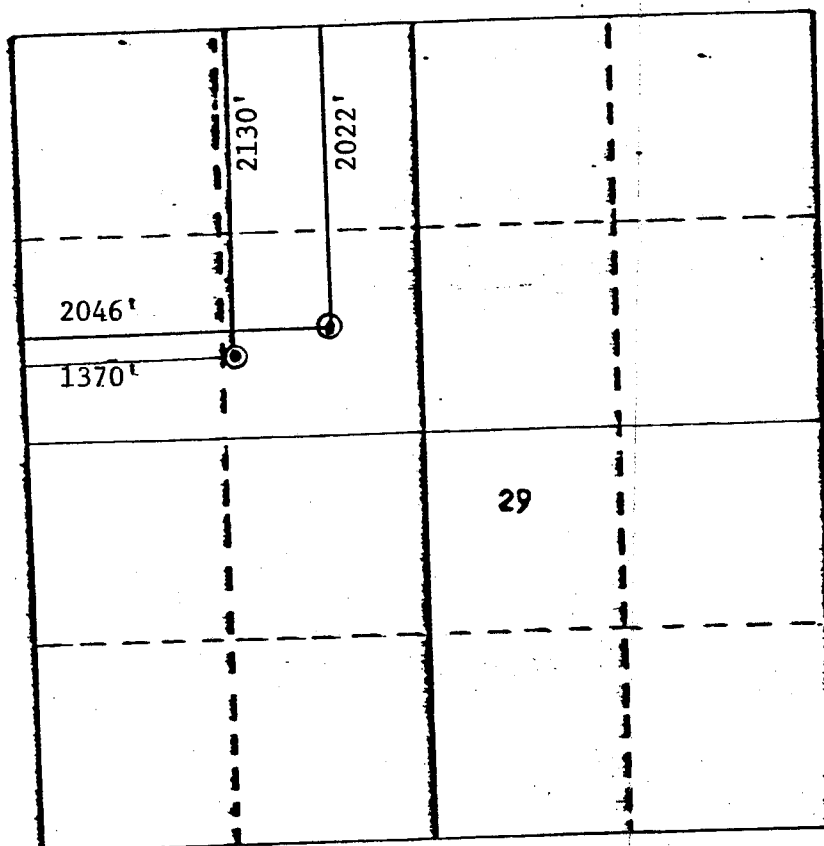
COMPANY PHILIPS OIL COMPANY

LEASE RATHERFORD UNIT WELL NO. 29-22

SEC. 29, T. 13S, R. 24E  
San Juan County, Utah

LOCATION 2130' FNL 1370' FWL (Surface)  
2022' FNL 2046' FWL (Subsurface)

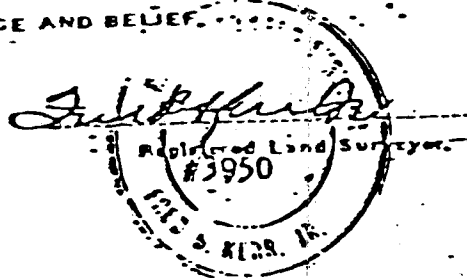
ELEVATION 4976 ungraded ground



SCALE—1 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-  
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

SEAL



SURVEYED July 13 ..84

RATHERFORD UNIT #29-22

Supplement to Form 9-331C "Application for Permit to Drill, Deepen, or Plug Back."

DRILLING PROGRAM

1. Surface formation is the Dune Sand, which consists of loose windblown sand, age-recent.

Estimated tops of geologic markers:

|                     |       |
|---------------------|-------|
| Chinle              | 1685' |
| Shinarump           | 2510' |
| DeChelly            | 2805' |
| Hermosa             | 4735' |
| Desert Creek Zone I | 5740' |

2. Brackish water-bearing sands are expected in the Navajo, Wingate, and DeChelly formations. Oil is expected to be encountered in the Ismay and Desert Creek formations. The top of cement will be approximately at 2000'.
3. Blow-out preventers will be 10" Series 900 equipment to be tested initially to 3000 psi. They will be inspected and operated daily and pressure tested weekly to 1500 psi. Weekly pressure tests will be supervised by representatives of Phillips Oil Company and the drilling contractor. Tests will be recorded on the daily drilling report which will remain on the rig floor during drilling operations. BOP tests will be conducted in accordance with Phillips standards, copy attached.
4. a. Proposed Casing Program:

1. Conductor casing:

|      |         |        |      |      |     |
|------|---------|--------|------|------|-----|
| 100' | 13-3/8" | 48#/ft | H-40 | ST&C | new |
|------|---------|--------|------|------|-----|

2. Surface casing:

|       |        |        |      |      |     |
|-------|--------|--------|------|------|-----|
| 1600' | 9-5/8" | 36#/ft | K-55 | ST&C | new |
|-------|--------|--------|------|------|-----|

Surface casing will be tested to 1500# before drilling out.

3. Production casing:

|       |    |              |      |      |     |
|-------|----|--------------|------|------|-----|
| 5700' | 7" | 23# & 26#/ft | K-55 | ST&C | new |
|-------|----|--------------|------|------|-----|

Production casing will be tested to 3000#.

b. Proposed Cementing Program:

1. Conductor Casing:

Conductor casing will be cemented with 150 sks Class B cement. Cement will be brought to surface.

2. Surface Casing:

Surface casing will be cemented with 300 sks "light" cement followed with 300 sks Class B cement. Cement will be brought to surface.

3. Production casing:

Production casing will be cemented with "light" cement followed with Class B cement. For cement volume, caliper will be used with 15% excess. The top of the cement should be around 2000'. If other zones with hydrocarbon potential are encountered, they will be covered with cement.

c. Auxiliary Equipment:

Auxiliary equipment will include upper and lower kelly cocks, a drill string safety valve, and a pit level indicator.

5. Drilling Fluid:

Drilling fluid will be a fresh water based mud system. Spud mud is gel and water with a weight of 8.4-8.8 ppg. From the surface to approximately 1600', gel and water will be used. Mud weight may be up to 9 ppg to control water flow from the Wingate formation. A slurry of 8.6-9.5 ppg, 32-38 viscosity, and less than 15cc/30 min. water loss will be used from 1600'-5200'. Mud weight may be increased to 10.4 ppg if a water flow is encountered. From 5200' to total depth mud properties will be 10.5-12.5 ppg, 40-45 viscosity, and below 10 cc water loss.

Adequate quantities of mud materials will be stored at the location to equal the volume of the rigs complete circulating system. A flow sensor will be used.

6. Testing, logging, and coring:

The logging program will consist of DLL, GR, SP, and Caliper from T. D. to the surface casing. A FDC/CNL and a Micro-proximity log will be run from T. D. to 4300'. A temperature or cement bond log will be run to determine cement top. No coring or drill stem tests are planned.

7. Downhole Conditions:

Drilling in the area indicates no abnormal pressures, temperatures, or hydrogen sulfide gas.



8. Phillips anticipates  
Drilling operations

operations in November 1961  
estimated to take fifteen days.

#### CULTURAL RESOURCE REPORT

Abajo Archaeology has  
the subject wellsite  
Farmington office.  
is attached.

ed a cultural resource inventory of  
y of the report has been sent to the BLM  
information regarding the subject well

#### SURFACE USE PROGRAM

##### 1. Existing Roads

- a. Access to exist  
south of Montez

roads is approximately 5 miles  
K, Utah.

- b. The existing r  
condition.

be maintained in the same better

- c. Refer to the a

ccess road map for road information.

##### 2. Access Roads

Planned upgrading  
map.

ing access roads is shown on the attached

##### 3. Location of Existing

Locations of exist

are shown on the attached maps.

4. Production from the  
Tank Battery #1, 1  
County, Utah. The  
roads. A plat of

well will be piped to Rafterford Unit  
the SW SW Sec. 16-T41S-R24, San Juan  
will be visible from the existing lease  
ed leadline is attached.

##### 5. Water Supply

- a. The source of water  
River Booster, NE/4  
SE/4 Sec. 17 in T41

the subject well is from  
or from the Water Injection Plant,  
San Juan County, Utah.

- b. The drilling water  
subject well.

ucked from the water source to the

- c. A water supply well

be drilled on the lease.

##### 6. Construction Materials

- a. Only native soils w  
the access road.

ed for construction of well and

- b. Pit run rock will be used on the wellsite and access road when needed.
- c. The above materials are owned by the Navajo Tribe.

#### 7. Waste Disposal

- a. Cuttings: Cuttings will be contained in a fenced unlined reserve pit until dry enough to cover. Upon abandonment, the reserve pit area will be backfilled, shaped to natural topography, and seeded.
- b. Drilling Fluid: Drilling fluid will be contained in a fenced unlined reserve pit until dry enough to cover. Upon abandonment, the reserve pit area will be backfilled, shaped to natural topography, and seeded.
- c. Garbage/Trash: All garbage and trash will be put in the burn pit. The burn pit will be fenced on four sides. After the burn pit is no longer in use, the trash and garbage will be covered with a minimum of 4 feet of fill.
- d. Salt: No salts are anticipated on this well. If salt is present, it will be disposed of in the reserve pit.
- e. Chemicals: Chemicals will be disposed of in the reserve pit.
- f. Sewage: Dry chemical toilets will be used.

#### 8. Ancillary Facilities

No ancillary facilities are required.

#### 9. Well Site Layout.

- a. Refer to attached Rig Layout plat
- b. There are no plans to line the reserve pit unless porous soil materials are encountered during construction.

#### 10. Surface Reclamation Plans

- a. Construction Program: A cross section of the drill site showing cuts and fills is attached.
- b. Well Abandonment: All disturbed areas will be shaped to the natural topography and seeded in accordance with BLM requirements.
- c. Producing Well: Those areas not needed for production purposes will be recontoured to the surrounding topography. Seeding will be in accordance with BLM requirements.

d. Pipelines and flowlines: Flowlines will be above ground and follow or be visible from existing roads.

e. Rehabilitation will begin as soon as possible, considering weather and other factors, and proceed per recommendation of the BLM. The reserve pit will be reclaimed once it dries.

11. Surface Ownership: The wellsite location, access road and leadline are on the Navajo Indian Reservation. No dwellings are in the proposed drilling area.

12. Other information:

The reserve pit will be fenced on three sides during drilling and on the fourth side after the rig is moved out.

13. Operator's Representative and Certification.

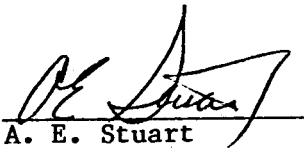
a. Field Representative:

A. E. Stuart  
P. O. Box 2920  
Casper, Wyoming 82602  
307-237-3791

I hereby certify that I or persons under my direct supervision have inspected the proposed drill site and access route; and I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with operations proposed herein will be performed by Phillips Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

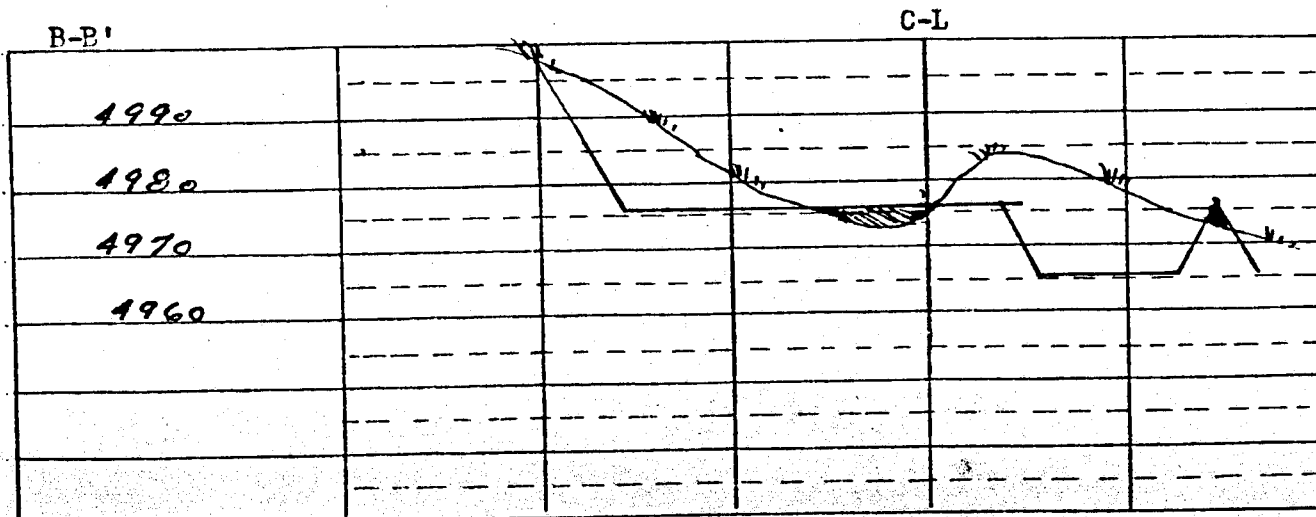
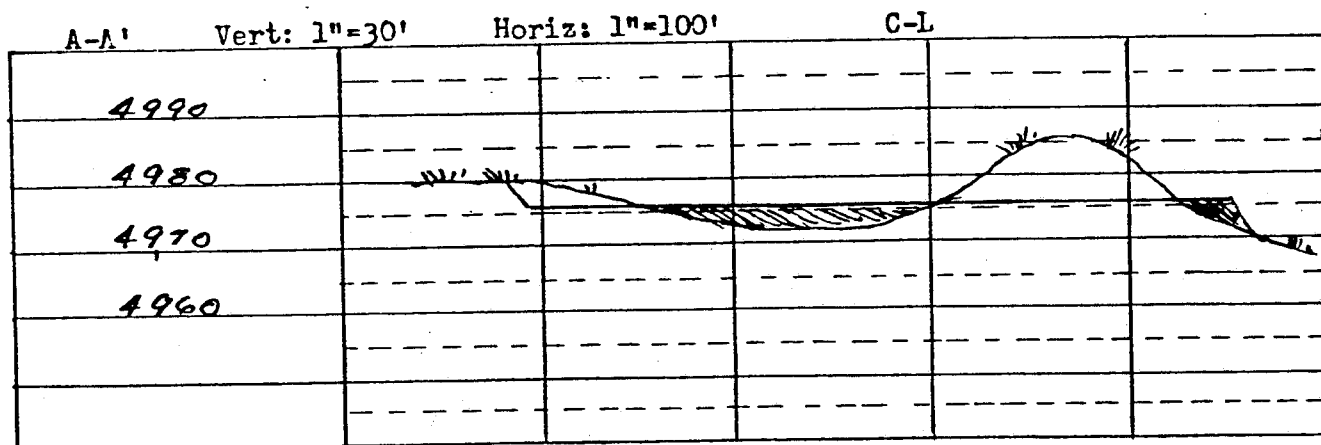
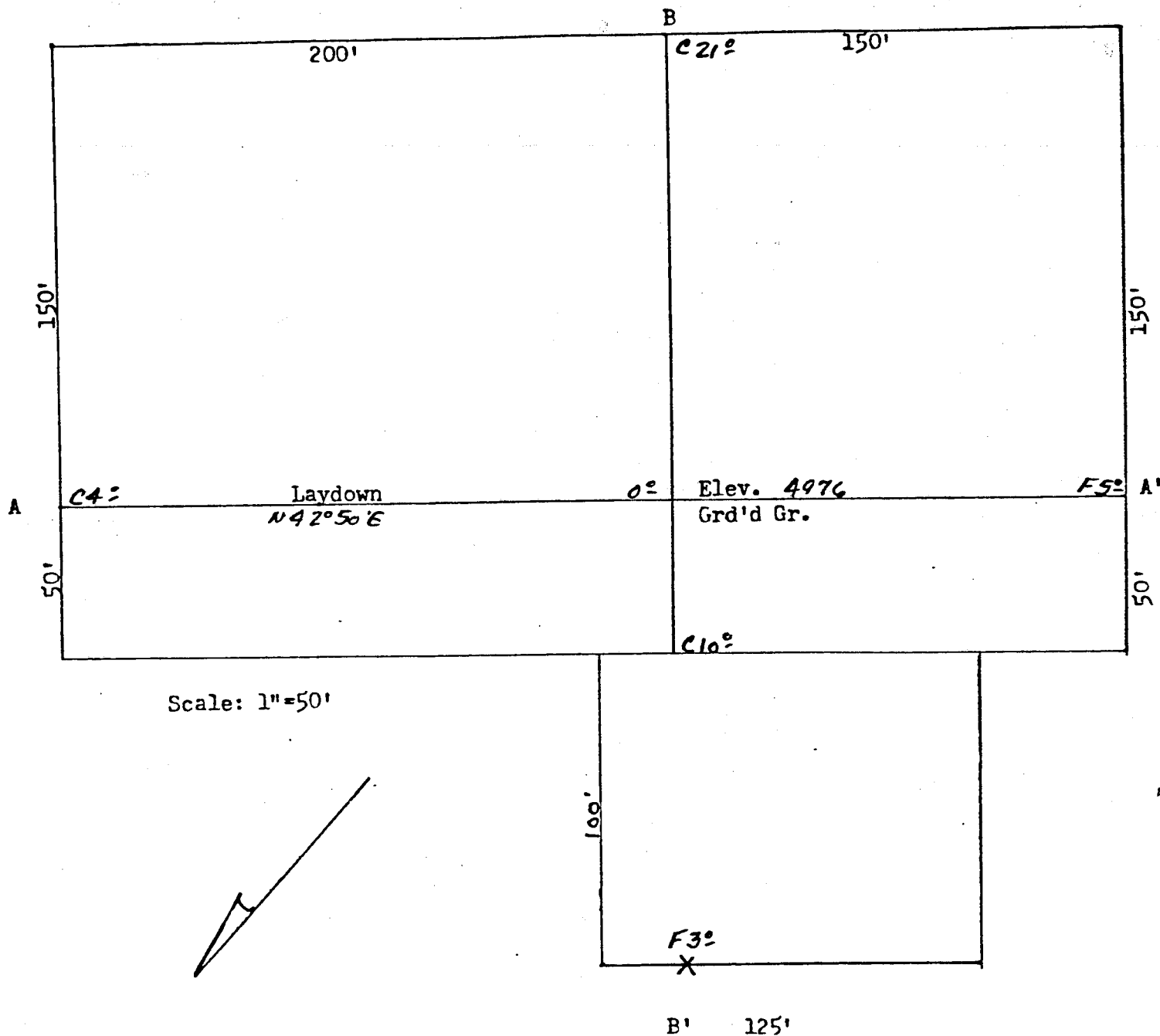
Date

9/24/84

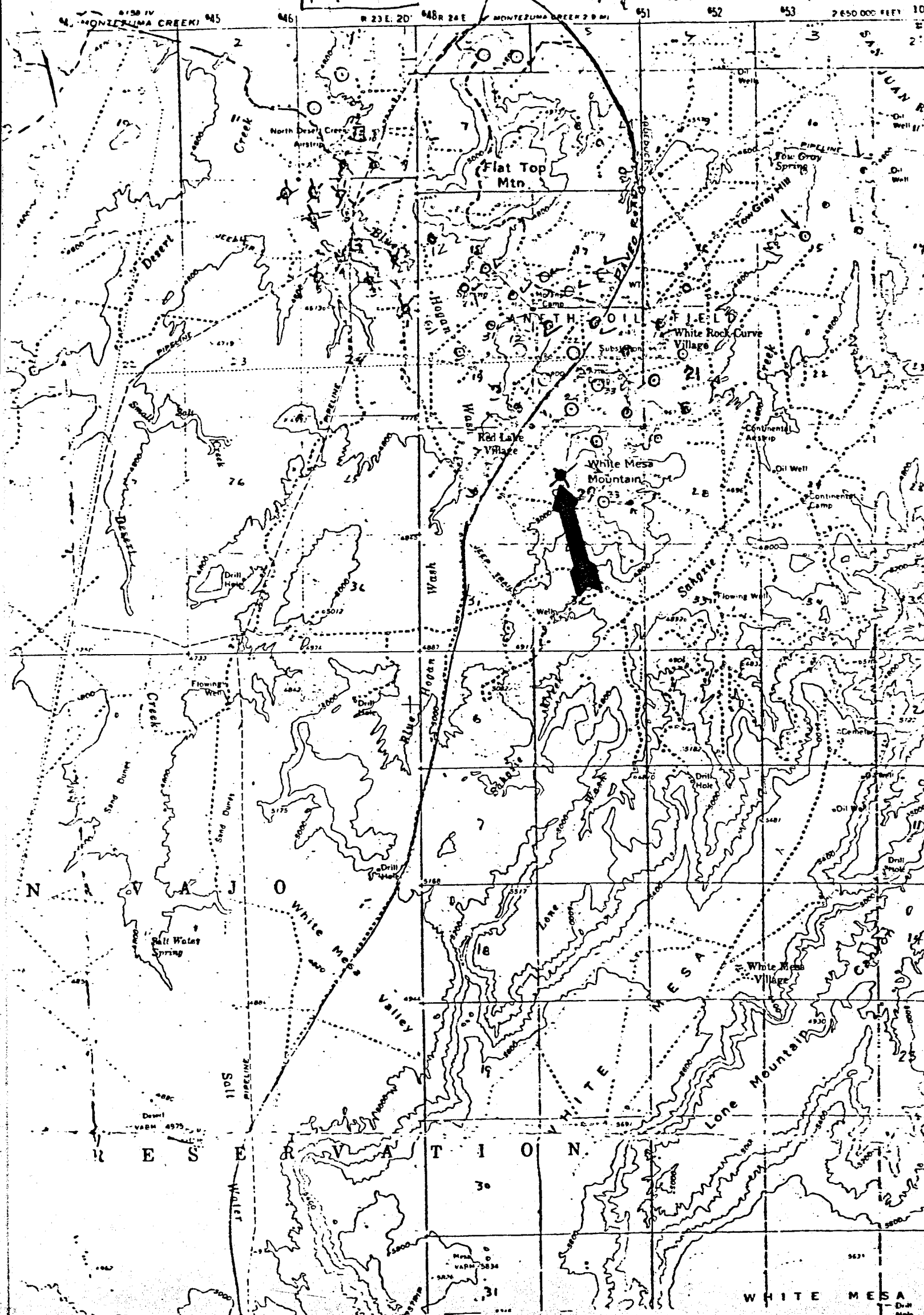
  
A. E. Stuart  
Area Manager

BJM/fb (18)  
Casper - RC

Profile for  
 PHILLIPS OIL COMPANY #29-22 RATHERFORD UNIT  
 2130'FNL 1370'FWL Sec. 29-T41S-R24E  
 SAN JUAN COUNTY, UTAH



WHITE MESA VILLAGE QUADRANGLE  
UTAH  
15 MINUTE SERIES (TOPOGRAPHIC)

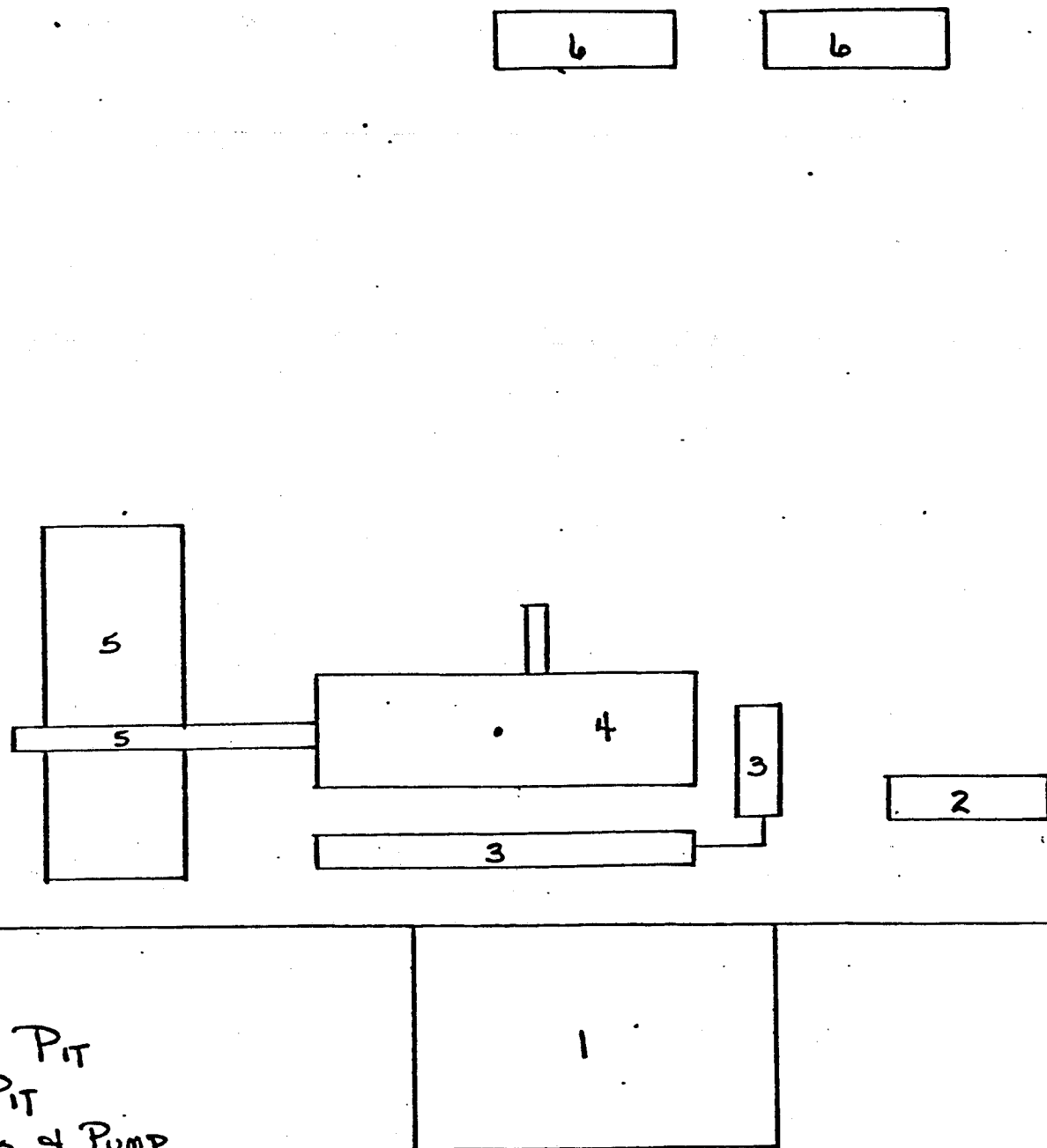


Vicinity Map for  
PHILLIPS OIL COMPANY #29-22 RATHERFORD UNIT  
2130'FNL 1370'FWL Sec. 29-T41S-R24E  
SAN JUAN COUNTY, UTAH

RATHERFORD UNIT #29-22

SE NW SEC. 29 T41S-R24E

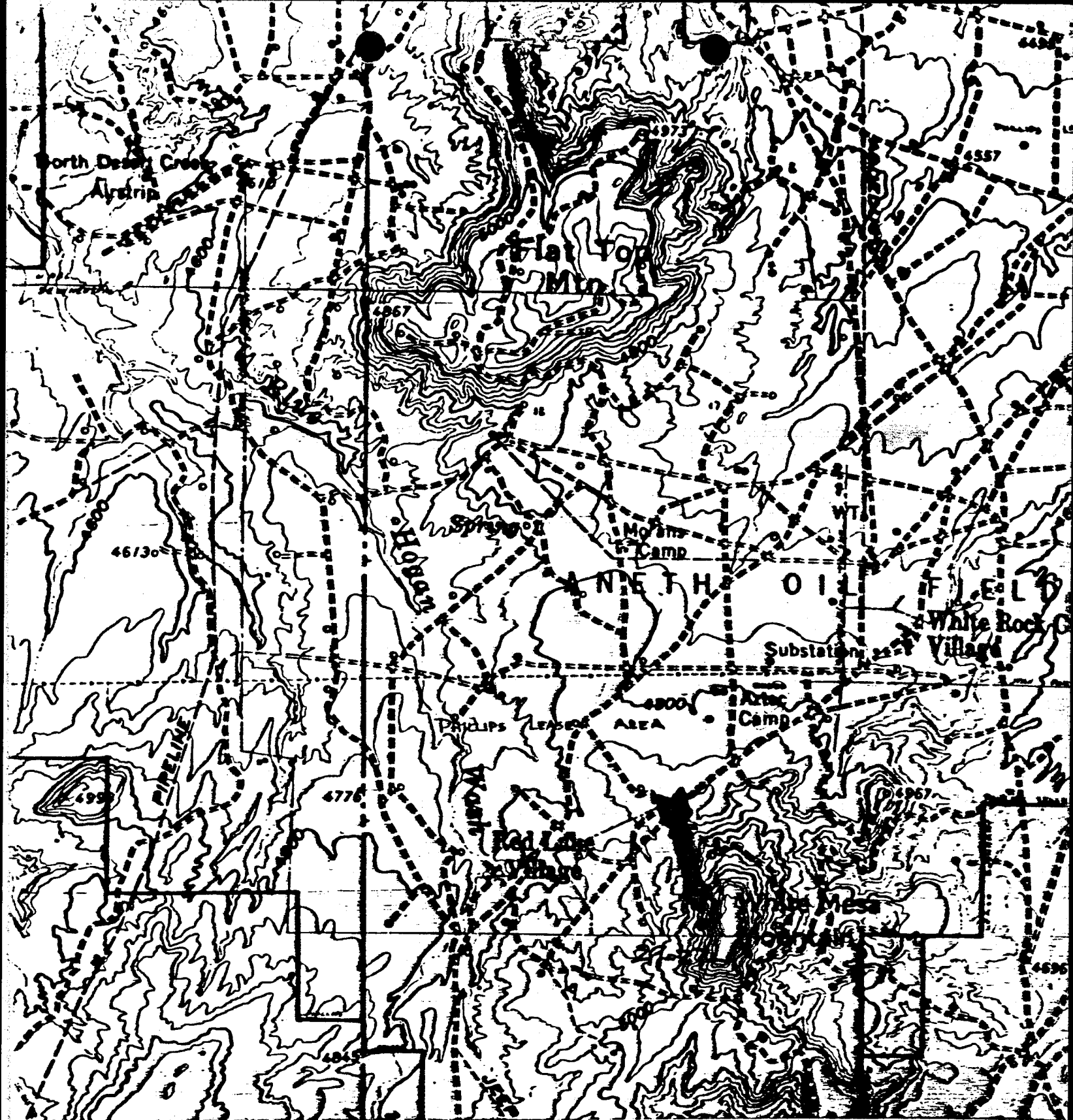
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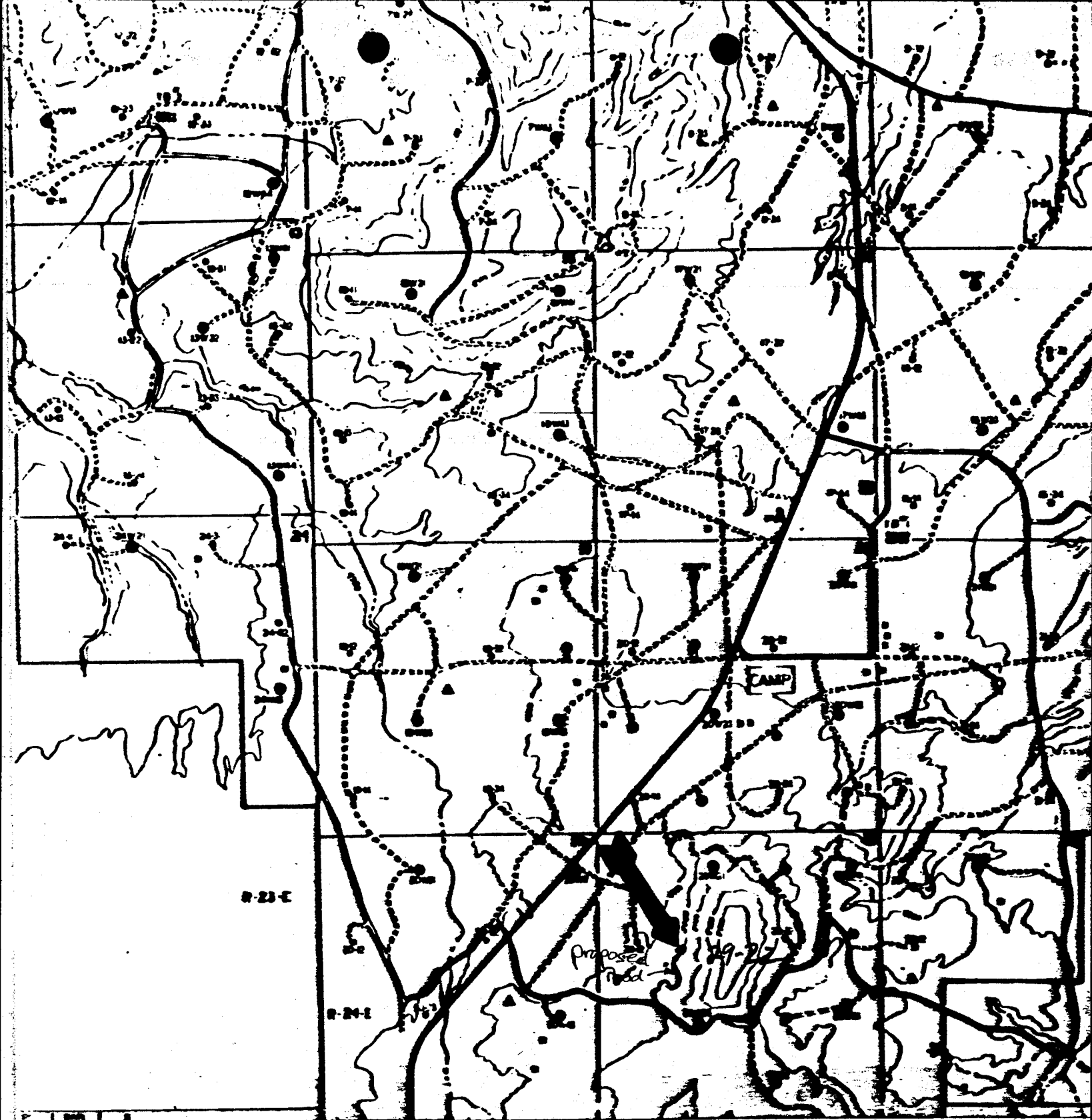
1. RESERVE PIT
2. TRASH PIT
3. CIR. PITS & PUMP
4. RIG
5. CAT WALK & PIPE RACKS
6. TRAILERS

DRILLING RIG LAYOUT

OUTLINE OF LOCATION APPROXIMATELY 300' x 350'  
NOT TO SCALE.

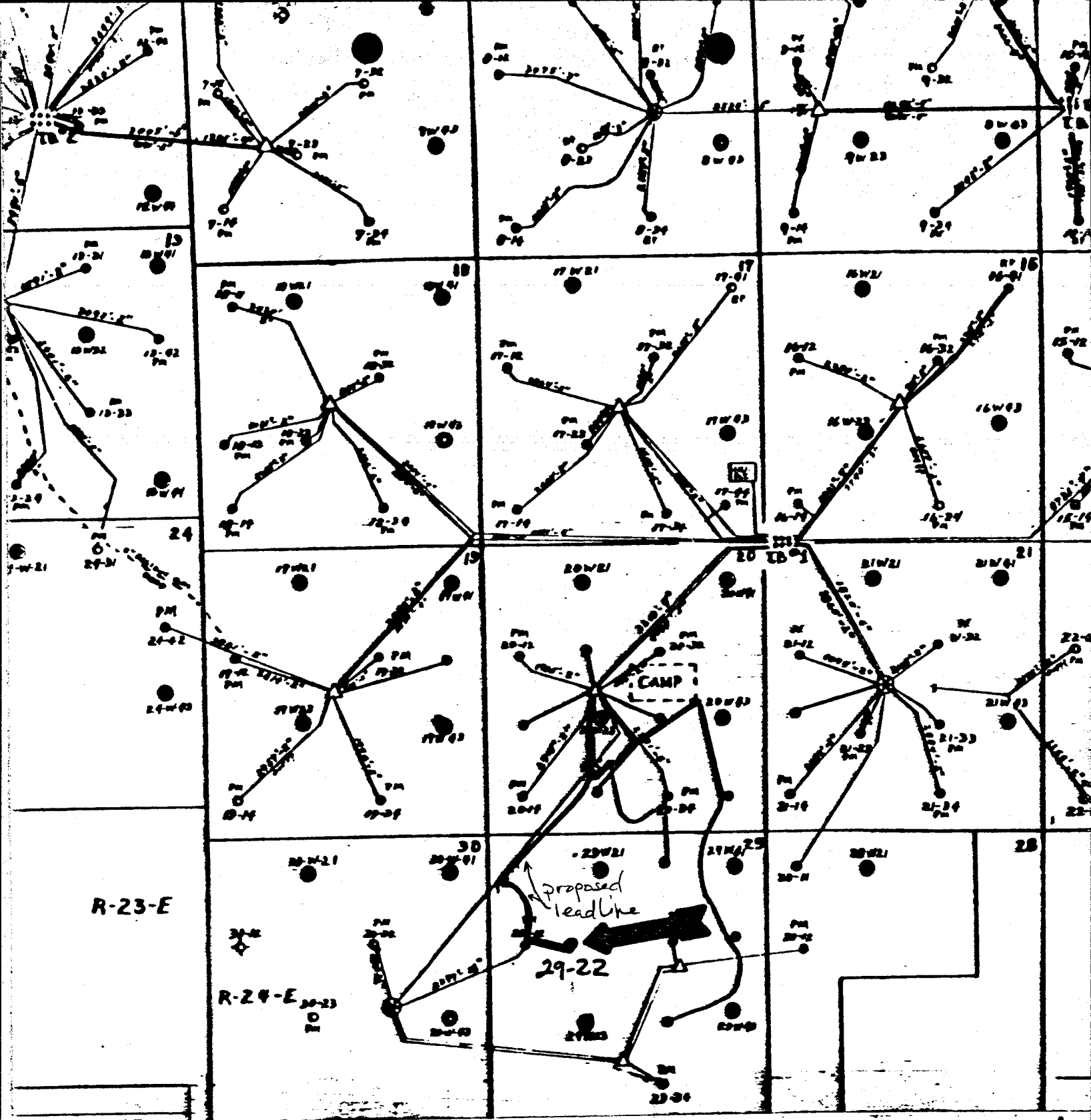


|                   |   |    |      |         |                    |
|-------------------|---|----|------|---------|--------------------|
| NO.               | REVISION  | BY | DATE | CHKD    | APPD               |
| FOR BIDS          | <b>PHILLIPS PETROLEUM COMPANY</b><br>BARTLESVILLE, OKLAHOMA                             |    |      | JA NO.  | FILE CODE          |
| FOR APPR          |   |    |      | AFE NO. | SCALE<br>2.2"=1 mi |
| FOR CONST         | RATHERFORD UNIT WELL 29-22<br>PROPOSED<br>SE NW SEC. 29 T41S-R24E<br>SAN JUAN CO., UTAH |    |      | DWG NO. | SH NO.             |
| DRAWN 7-20-84 BJM |   |    |      |         |                    |
| CHECKED           |   |    |      |         |                    |
| APP'D             |   |    |      |         |                    |

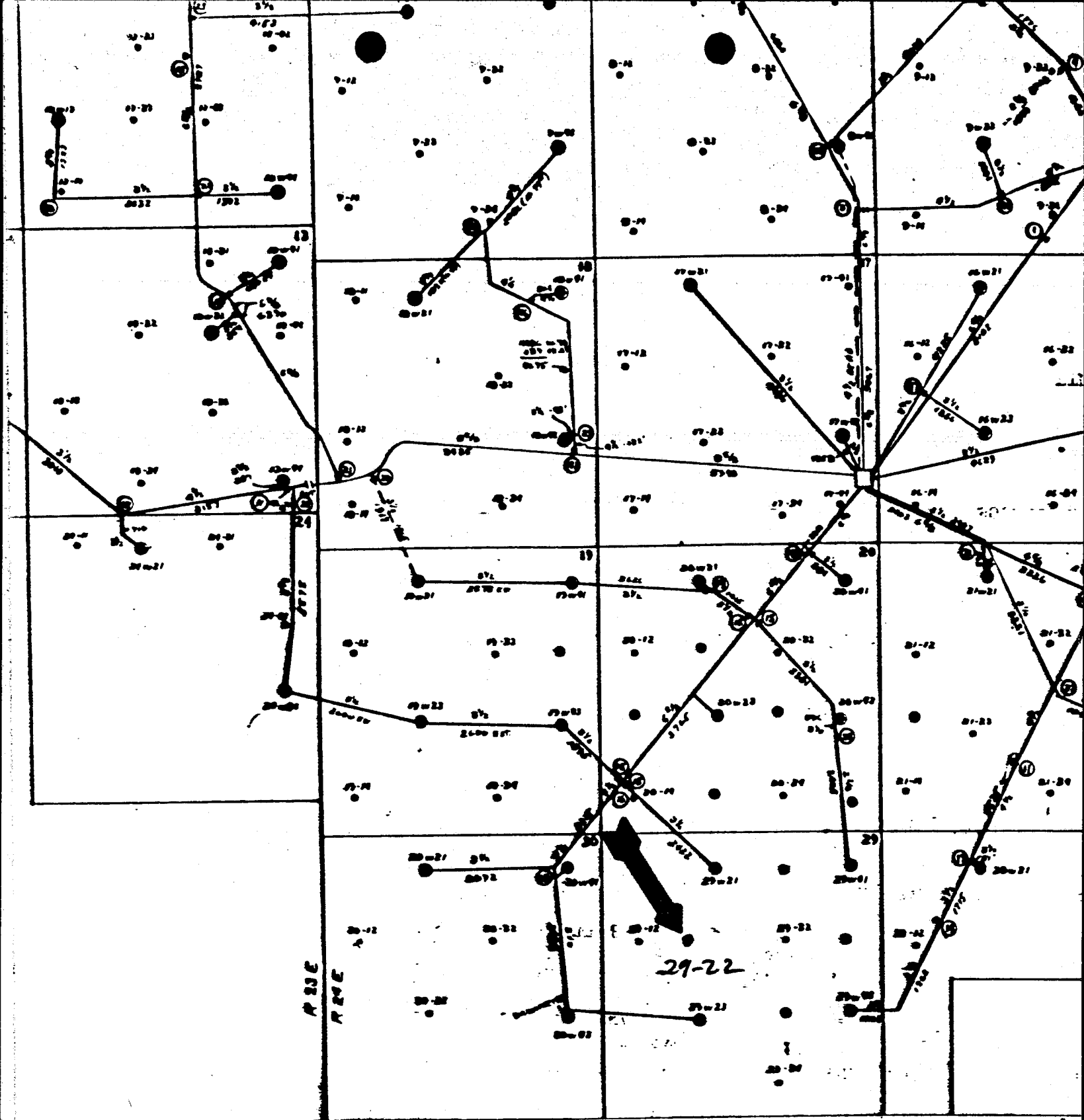




|                   |  |                             |  |     |         |             |           |
|-------------------|--|-----------------------------|--|-----|---------|-------------|-----------|
| 1                 |  | Relocation of proposed road |  | BJM | 8-15-84 |             |           |
| NO.               |  | REVISION                    |  | BY  | DATE    | CHKD        | APP'D     |
| FOR BIDS          |  | PHILLIPS PETROLEUM COMPANY  |  |     |         | JA NO.      | FILE CODE |
| FOR APPR          |  | BARTLESVILLE, OKLAHOMA      |  |     |         | AFE NO.     | SCALE     |
| FOR CONST         |  | RATHERFORD UNIT WELL 29-22  |  |     |         | 2.2" = 1 mi |           |
| DRAWN 7-20-84 BJM |  | PROPOSED ROAD PLAT          |  |     |         | DWG NO.     |           |
| CHECKED           |  | SE NW SEC. 29 T41S-R24E     |  |     |         | SH NO.      |           |
| APP'D             |  | SAN JUAN CO., UTAH          |  |     |         |             |           |





|                                    |          |   |         |         |                    |
|------------------------------------|----------|---|---------|---------|--------------------|
| 1. Relocation of proposed leadline |          | BJM   | 8-15-84 |         |                    |
| NO.                                | REVISION | BY  | DATE    | CHKD    | APPD               |
| FOR BIDS                           | 1        | PHILLIPS PETROLEUM COMPANY  |         | JA NO.  | FILE CODE          |
| FOR APPR                           |          | BARTLESVILLE, OKLAHOMA  |         | AFE NO. | SCALE<br>2.2"=1 mi |
| FOR CONST                          |          | RATHERFORD UNIT WELL 29-22<br>PROPOSED LEADLINE PLAT<br>SE NW SEC. 29 T41S-R24E<br>SAN JUAN CO., UTAH |         | DWG NO. |                    |
| DRAWN 7-20-84/BJM                  |          |   |         | SH NO.  |                    |
| CHECKED                            |          |   |         |         |                    |
| APPD                               |          |   |         |         |                    |



|                   |   |    |         |                      |      |
|-------------------|---|----|---------|----------------------|------|
| NO.               | REVISION  | BY | DATE    | CHKD                 | APPD |
| FOR BIDS          |  <b>PHILLIPS PETROLEUM COMPANY</b>  |    | JA NO.  | FILE CODE            |      |
| FOR APPR          | BARTLESVILLE, OKLAHOMA  |    | AFE NO. | SCALE<br>2.2" = 1 mi |      |
| FOR CONST         | <b>RATHERFORD UNIT WELL 29-22</b><br><b>INJECTION LINES</b><br><b>SE NW SEC. 29 T41S-R24E</b><br><b>SAN JUAN CO., UTAH</b>  |    | DWG NO. |                      |      |
| DRAWN 7-20-84 BJM |   |    | SH NO.  |                      |      |
| CHECKED           |   |    |         |                      |      |
| APPD              |   |    |         |                      |      |

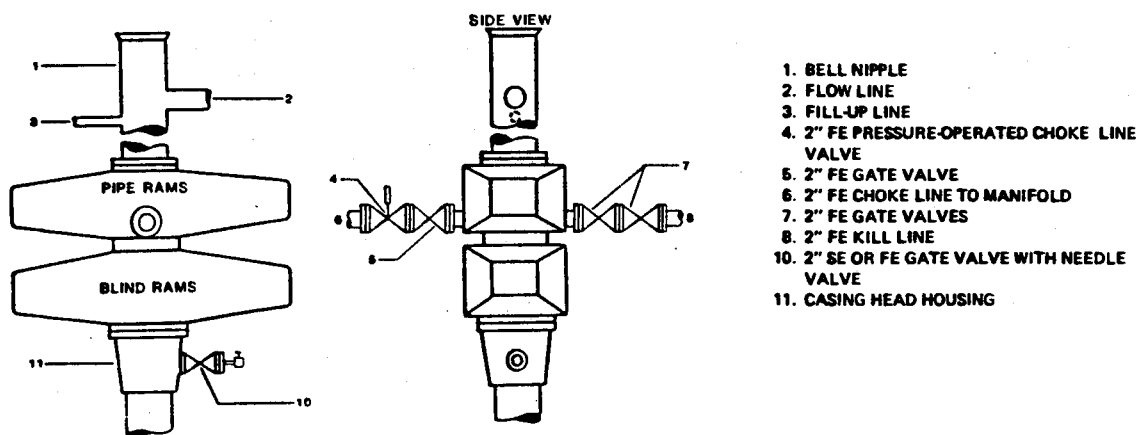


Figure 7-10. Standard Hydraulic Blowout Preventer Assembly  
(2 M or 3 M Working Pressure) Alternative 3 (without Drilling Spool)

Well Control 4  
January/83

PHILLIPS PETROLEUM COMPANY



Page 251  
Section II

## 7.6 Testing Surface Blowout Preventer Equipment

### 7.6.1 Pressure Test Frequency

All rams, annulars, valves, choke and kill lines, choke manifold, kelly cocks, and safety valves shall be pressure tested at the following frequencies:

- (1) Initial installation of blowout preventers.
- (2) After setting casing, before drilling cement.
- (3) Every 7 days or on first trip out of hole after 7 days since previous pressure test.
- (4) After any component of the blowout preventer assembly is disturbed, replaced or repaired (this includes lines, valves, or choke manifold). In this case, the component changed may be the only component tested.
- (5) Prior to conducting first drill stem test in a series of one or more DST's.
- (6) Any time the Phillips Wellsite Supervisor deems necessary, such as prior to drilling into suspected high pressure zones.

### 7.6.2 Function Test Frequency

All rams, annulars, valves, and other items specified below, shall be function tested at the following frequencies.

- (1) On initial installation from driller control and remote panel.
- (2) Each trip out of hole alternating between driller's and remote control panel but not more than once every twenty-four (24) hours. Close pipe rams or annular preventer ONLY on drill pipe.

### 7.6.3 Test Pressures

Use the following table to identify which test is appropriate and at what pressure.

| TEST                 | DESCRIPTION   |
|----------------------|---|
| Low Pressure         | Test to 200-300 psi prior to each high pressure test.   |
| Initial Installation | <p>Test all rams, annulars, valves, choke manifold, kelly cocks, and safety valves to the lesser of the following pressures.</p> <ul style="list-style-type: none"> <li>. Rated working pressure of the component in the blowout preventer assembly with the exception of annular preventer which is to be tested to 70% of the rated working pressure.</li> <li>. The API rated casing burst pressure of the last casing to be utilized in the well with the BOP assembly being tested.</li> <li>. Rated working pressure of the casing head.</li> <li>. If "Cup Tester" is used do not exceed 80% of the API rated burst pressure of the casing.</li> </ul> |
| Repair               | Repaired or replaced components are to be tested to the same pressures used in the Initial Test.  |

## FIELD PRACTICES AND STANDARDS

### 7.6.3, cont'd

| TEST                            | DESCRIPTION   |
|---------------------------------|---|
| Weekly and After Setting Casing | <p>Test all rams, annulars, valves, choke and kill lines, choke manifold, kelly cocks, and safety valves, to the lesser of the following pressures.</p> <ul style="list-style-type: none"> <li>. 50% of the rated working pressure of the component to be tested.</li> <li>. 80% of the API rating of the casing burst pressure then in the well.</li> <li>. Test blind rams during internal casing pressure test. (Refer to drilling program for test pressures).</li> </ul> |
| DST Operations                  | <p>Test all pipe rams, annular preventers, valves, choke and kill lines, choke manifold, kelly cocks, and safety valves to the maximum anticipated surface pressure expected while conducting drill stem tests. Do not test annular to more than 70% of its working pressure.</p>   |
| Shallow Casing                  | <p>Where cased hole is less than 2000 feet measured depth, the test pressure may be 1.5 psi per foot of casing depth, not to exceed 80% of the API rated burst pressure. In the case of shallow conductor casing or drive pipe (500 feet or less) that is equipped with one BOP, then the test pressures do not need to exceed 1.0 psi per foot of casing depth.</p>  |
| Accumulator                     | <p>Test accumulator to the manufacturer's rated working pressure. Test the accumulator for time to pump up to specifications.</p>   |

### 7.6.4 Blowout Preventer Test Practices

- (1) All pressure tests shall be witnessed by Phillips' Representative and the Contractor's Senior Supervisor on Location. All tests shall be recorded on the Phillips' Daily Drilling Report, the IADC Report and the BOP Test Form; see Figure 7-13. A reproducible copy of the BOP Test Form (Figure 7-13) can be found in Section III.

7.6.4, cont'd

- (2) Hold all low pressure tests for three minutes and high pressure tests for five minutes or until Phillips Representative and the Contractor's Senior Supervisor are satisfied no leaks exist.
- (3) A detail procedure for the testing of blowout preventer and choke manifold equipment will be included in the drilling programs. The procedure is to be distributed for each drilling unit under contract by the operating office. Each operating office must include the following practices:
  - a. Prior to testing, all lines and valves will be thoroughly flushed to ensure the system is clear. Test all opening and closing control lines to 1500 psi and inspect for leaks.
  - b. If necessary, run a stand of drill collars below the test plug to prevent unseating the test tool during testing.
  - c. All precautions must be taken to avoid pressuring the casing below the test tool.
  - d. The running string is to be full of water (or antifreeze solution) for immediate indication of test tool leakage.
  - e. All pipe rams, blind/shear rams, blind rams, annular preventers, valves, fail-safe valves, choke and kill lines are to be tested at the frequencies and pressures outlined in this section.
  - f. Drill pipe safety valve, lower and upper kelly cocks are to be tested from below at pressures and frequencies outlined in this section.
  - g. All test fluids are to be bled back to the pump unit in safe manner.

7.6.5 Testing Wellhead Pack-offs

The wellhead pack-off is to be pressure tested upon installation for five minutes. Test pressure is to be 80% API rated casing collapse or the rated working pressure of the casing head whichever is the lesser. Casing annulus valve(s) must be in open position to prevent casing collapse during pack-off testing.

When testing the wellhead pack-off, use recorded test pressures and volumes to determine if pack-off is leaking. Pressure should be immediately released at the first indication of a leak.

## FIELD PRACTICES AND STANDARDS

### 7.6.6 Safety Precautions

One pumping unit operator is to be stationed at the high pressure pumping unit, and is to remain at this station until all testing has been completed. The pump unit operator is to be in continuous communication with the person who is recording the test data. The Phillips Wellsite Supervisor and Contractor's Senior Supervisor on location will be the only personnel who will go into the test area to inspect for leaks when the equipment involved is under pressure. The rig crews are to stay clear of the area until such time that both the Phillips Wellsite Supervisor and the Contractor's Senior Supervisor have contacted the pumping unit operator and all three have agreed that all pressure has been released, and there is no possibility of pressure being trapped. The rig crews may then go into the area to repair leaks or work as directed.

All lines, swings, and connections that are used in the testing of the blowout preventers are to be adequately secured in place.

Pressure is to be released only through the pressure release lines that are vented back into the pump unit tanks. The lines are to be clamped down to direct the flow into unit tanks.





ARCHAEOLOGICAL SURVEYS OF 13 PROPOSED WELL LOCATIONS,  
THEIR ASSOCIATED ACCESS ROADS AND FLOW LINE ROUTES,  
AND 9 MILES OF PROPOSED WATER INJECTION LINE ROUTES  
IN SAN JUAN COUNTY, SOUTHEASTERN UTAH

12-W24  
12-34  
14-41  
13-11

13-12  
13-14  
13-21  
13-23  
13-34

13-43  
18-W12  
24-41  
29-22

Water Injection Lines: Mainline and Lines A, B, C,  
D, E, F, F-1, G, H, I, and J

Prepared by:

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Archaeological Consultant

Prepared for:

Phillips Oil Company  
Cortez, Colorado

Submitted by:

William E. Davis, Director  
Abajo Archaeology  
Bluff, Utah

August 1984

Navajo Nation Antiquities Permit No. 1984-24  
United States Department of the Interior  
Bureau of Indian Affairs  
Branch of Environmental Quality Control Authorization  
BIA-NAO-84-ABA-048-1  
and  
Utah State Permit No. U-84-8-5-i

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## INTRODUCTION

On August 4, 6, 7, 9, and 11, 1984, cultural resource surveys were conducted within the Rutherford Unit south of Montezuma Creek, southeast San Juan County, Utah (Figure 1). The surveys were requested by Mr. Max Issacs, supervisor of Phillips Oil Company of Cortez, Colorado, and carried out at the request of Mr. Bob Hogg, engineer, and Mr. John White, who replaced Mr. Max Issacs. Both Mr. Hogg and Mr. White were present in the field during portions of the survey. Mr. Hogg assisted the archaeologist by flagging the access routes and flow lines during the survey. The project consisted of 13 proposed well locations, their associated access routes and flow lines, and approximately nine miles of proposed injection pipeline.

The project area lies within the boundaries of the Navajo Reservation (Tables 1 and 2) which is under the jurisdiction of the United States Department of the Interior, Bureau of Indian Affairs and the Navajo Nation. Cultural resources are administered by the USDI-BIA, Branch of Environmental Quality and by the Navajo Nation Cultural Resource Management Program.

The purpose of the survey was to verify the presence of and document any cultural resources within the proposed project impact areas. The accomplishment of these objectives fulfills compliance requirements for the preservation of archaeological and historical resources set forth by the American Antiquities Act of 1906, the Historic Preservation Act of 1966, the National Environmental Policy Act of 1969, Executive Order No. 11593 of 1971, the Archaeological and Historical Conservation Act of 1974, and the Archaeological Resources Protection Act of 1979. Cultural resources occurring on Navajo Tribal lands are further protected by Tribal laws: CJA-16-72 of 1972, Res. ACAP-86-77 of 1977, and the Navajo Tribal Code, Title Nineteen, Sections 1002 and 1004.

Field work was conducted under the Navajo Nation Antiquities Permit No 1984-24, the USDI-BIA, Environmental Quality Authorizaion No. BIA-NAO-84-048-1, and State of Utah Permit No. U-84-8-5-i. These permits and authorizations were granted to Abajo Archaeology of Bluff, Utah. BIA-NAO-84-ABA-048-1 is a "non-collection, non-disturbance" use authorization to conduct archaeological surveys on Navajo Tribal lands. The surveys were performed by Debra Foldi, an archaeological consultant with Abajo Archaeology. Dr. Anthony Klesert, Director of the Navajo Nation Cultural Resource Management Program and Mr. Terry

## ABSTRACT

Cultural resource surveys were conducted as part of the Rutherford Unit expansion project for Phillips Oil Company, in southeastern San Juan County, Utah. The surveys were performed on August 4, 6, 7, 9, and 11, 1984 on 13 proposed well location sites, eight associated access roads, portions of six associated flow line routes, and along nine miles of proposed injection line. The project area occurs in Sections 11, 12, 13, 14, and 24 in T 41 S, R 23 E and Sections 7, 17, and 18 in T 41 S, R 24 E, USGS White Mesa Village Quadrangle, Utah, 15'. It is under jurisdiction of the Bureau of Indian Affairs.

Seventeen isolated finds and one Anasazi Basketmaker II to Pueblo I artifact scatter (SJC-1106) were located during the survey. The isolated finds are not considered significant in terms of the eligibility criteria set forth in the National Register of Historic Places, thus, archaeological clearance is recommended for the project area, except the 100 meters of mainline injection pipeline east of its juncture with line J. It is recommended that the pipeline be rerouted or that an archaeologist be present to monitor construction of that portion of pipeline.

**Map Scale: 1:62,5000**

TABLE 1

## Legal Description of Project Area

Jurisdiction: Navajo Nation

Map: White Mesa Village Quadrangle, Utah, 1962, 15'

| Well Pad | Legal Location                   | UTM (Zone 12)                | Access Route, Length   |
|----------|----------------------------------|------------------------------|--|
| 12-W24   | CTSESW, Sec.12<br>T 41 S, R 23 E | 647,000 m E<br>4,121,825 m N | 300 feet (runs west<br>from location)                              |
| 12-34    | SESWSE, Sec.12<br>T 41 S, R 23 E | 647,700 m E<br>4,121,800 m N | 600 feet (runs SSW<br>from location)                               |
| 14-41    | NENENE, Sec.14<br>T 41 S, R 23 E | 646,250 m E<br>4,121,950 m N | 1000 feet (runs west<br>from location)-flow<br>line follows access |
| 13-11    | CTNWNW, Sec.13<br>T 41 S, R 23 E | 646,600 m E<br>4,121,950 m N | 800 feet (runs north<br>from location)-flow<br>line follows access |
| 13-12    | NWSWNW, Sec.13<br>T 41 S, R 23 E | 646,600 m E<br>4,121,075 m N | 1300 feet (runs west<br>from location)-flow<br>line follows access |
| 13-14    | CTSWSW, Sec.13<br>T 41 S, R 23 E | 646,600 m E<br>4,120,175 m N | 800 feet (runs WSW<br>from location)                               |
| 13-21    | CTNENW, Sec.13<br>T 41 S, R 23 E | 647,000 m E<br>4,121,400 m N | No access surveyed<br>No flow line surveyed                        |
| 13-23    | CTNWSW, Sec.13<br>T 41 S, R 23 E | 647,000 m E<br>4,120,600 m N | No access surveyed<br>No flow line surveyed                        |
| 13-34    | CTSWSE, Sec.13<br>T 41 S, R 23 E | 647,700 m E<br>4,120,200 m N | 600 feet (runs south<br>from location)-flow<br>line follows access |
| 13-43    | SWNESE, Sec.13<br>T 41 S, R 23 E | 647,750 m E<br>4,120,500 m N | 600 feet (runs NNE<br>from location)-flow<br>line follows access   |
| 18-W12   | CTSWNW, Sec.18<br>T 41 S, R 24 E | 648,225 m E<br>4,120,300 m N | 500 feet (runs ENE<br>from location)-flow<br>line follows access   |
| 24-41    | CTNENE, Sec.24<br>T 41 S, R 23 E | 647,825 m E<br>4,119,800 m N | No access surveyed<br>No flow line surveyed                        |
| 29-22    | SWSENW, Sec.29<br>T 41 S, R 24 E | 650,080 m E<br>4,117,600 m N | 900 feet (runs east<br>from location)-flow<br>line follows access  |

Del Bene of the USDI-BIA Branch of Environmental Quality  
were notified prior to performance of the field surveys.



## DESCRIPTION OF THE PROJECT AREA

The Phillips Oil Company, <sup>A</sup>Ratherford Unit development project is located in the extreme southeastern portion of San Juan County, just south of Montezuma Creek, Utah. The San Juan River flows to the north (2.5 miles), White Mesa Mountain is to the south, and Flat Top Mountain is situated within the project area. The <sup>A</sup>Ratherford Unit project is within the Blanding Basin of the Colorado Plateau Physiographic Province (Stokes 1977) and is characterized by broken topography ranging in elevation from 4580 feet to 6000 feet above sea level. Most of the project area is flat to rolling terrain, broken by steep-sided mesas, and dissected by intermittent washes and arroyos which feed the San Juan River. The San Juan River is the nearest permanent water source.

The surface geology is reflected in the general broken nature of the landscape. The lower flatlands are fluvial sandstones and mudstones of the Recapture Creek member of the Morrison Formation, which is generally covered by wind blown silts and sands with patches of soil and alluvium (Hintze and Stokes 1964). The lower, light-colored Bluff Sandstone Formation is exposed along Desert Creek (at the east edge of the project area) and portions of Blue Hogan Wash (Hintze and Stokes 1964). The mesas are comprised of the Westwater Canyon and Brushy Basin Members of the Morrison Formation; the later is a dinosaur-bearing, fluvial and lacustrine mudstone and siltstone (Hintze and Stokes 1964) which often contains chert deposits. The coal-bearing sandstone and carbonaceous shales of the Dakota Sandstone cap the higher mesa tops.

The vegetation is in the cool desert climates classified as the Upper Sonoran Life Zone and is characterized by a shadscale (salt desert shrub) plant community. The vegetation noted during the survey included snakeweed, rabbitbrush, shadscale, Mormon tea, big sagebrush, greasewood, saltbush, narrow-leaf yucca, prickly pear cactus, galleta grass, Indian rice grass, cheat grass, locoweed, and Russian thistle. Today, the project area supports a fairly large population of domesticated grazers: sheep, horses, and cattle. Non-domesticates noted during the survey were rabbits, rodents, lizards, and unidentified birds.

# CULTURE HISTORY

Broad overviews have been written, synthesizing the known culture history of southeastern Utah (see Nickens 1982, Weber 1982) and of northwestern New Mexico (see Stuart and Gauthier 1981). In general, the San Juan Basin, as was much of the Colorado Plateau, was inhabited prehistorically by the Basketmakers and Anasazi, relatively sedentary people who first incorporated horticulture into a hunting and gathering subsistence strategy, and later practiced agriculture. The Archaic hunter-gatherers and the earlier Paleo-Indian, mega-fauna hunters preceded the Basketmakers and Anasazi.

Historically the San Juan Basin, as was much of the Intermountain West, was inhabited by the Navajo and Ute. Although their entry into this area is as little understood as their early history, it is believed that their arrival barely preceded the Spanish Entrada during the 16th century (Wilcox 1981). From that time on, the area was visited by the Spanish, Anglo explorers, trappers, and traders, and later in the 19th century, by the Mormon settlers. Presently, much of the San Juan Basin, primarily the southern portion, is inhabited by the Navajo.

Archaeological surveys related to energy development to the east and northeast of the Rutherford Unit project (see Hewett et al 1979, Moore 1983, 1984, Swift 1984a, 1984b) have documented a variety of sites from artifact scatters to multiroom structures. Documented sites range from the Anasazi Pueblo I phase through recent Navajo. The highest site density occurs during the Anasazi Pueblo II phase, AD 900-1100. In the immediate project area, numerous isolated finds and Basketmaker II through Pueblo III and recent Navajo sites have been recorded (see Langenfeld and Hooten 1984, Langenfeld 1984).

ME

Y

A total of 13 proposed access routes were of six flow line routes of 9.13 miles (48,200 feet line (buried pipeline) w 2 and 3). Tables 3 and Each of the well locations the survey, demarcating Each well location was transects spaced 10 meters the entire location was foot (30 meter) buffer the staked well pad site.

The access roads and while the archaeologist access routes were surveyed were situated on or at roads. Flow lines are roads and existing flow of proposed flow line access roads which have yet A 100 foot right-of-way pattern along each flow line was to follow the feet were inspected in the

The injection line route A 50 foot right-of-way route, using the stake accomplished by walking of the line and back along

All cultural materials were noted, described, cultural resources which the potential for impacts (Plog et al 1978) were not

In addition to the the site files at the Management Program in Window, by phone, August 13, Utah Division of State been previously recorded impact areas.

well location sites identified, along with portable ground pipes). A proposed water injection also inventoried (Fig describe the area surveyed were staked prior by 350 foot pad surveyed by walking parallel back and forth surveyed. An additional also inspected at

line routes were followed the well sites, for well locations of existing maintenance proposed and existing routes. Only the portions that paralleled proposed built were surveyed. surveyed by walking a zig access route. If a route, an additional manner.

re marked by lath stakes inspected along the site center line. This zigzag pattern down one meter.

entered during the survey ten illustrated. and spacial integrity possible past human behavior isolated finds.

inspection, a search at the National Cultural Resources, Arizona, was initiated. A records search by found no sites to be in the proposed project

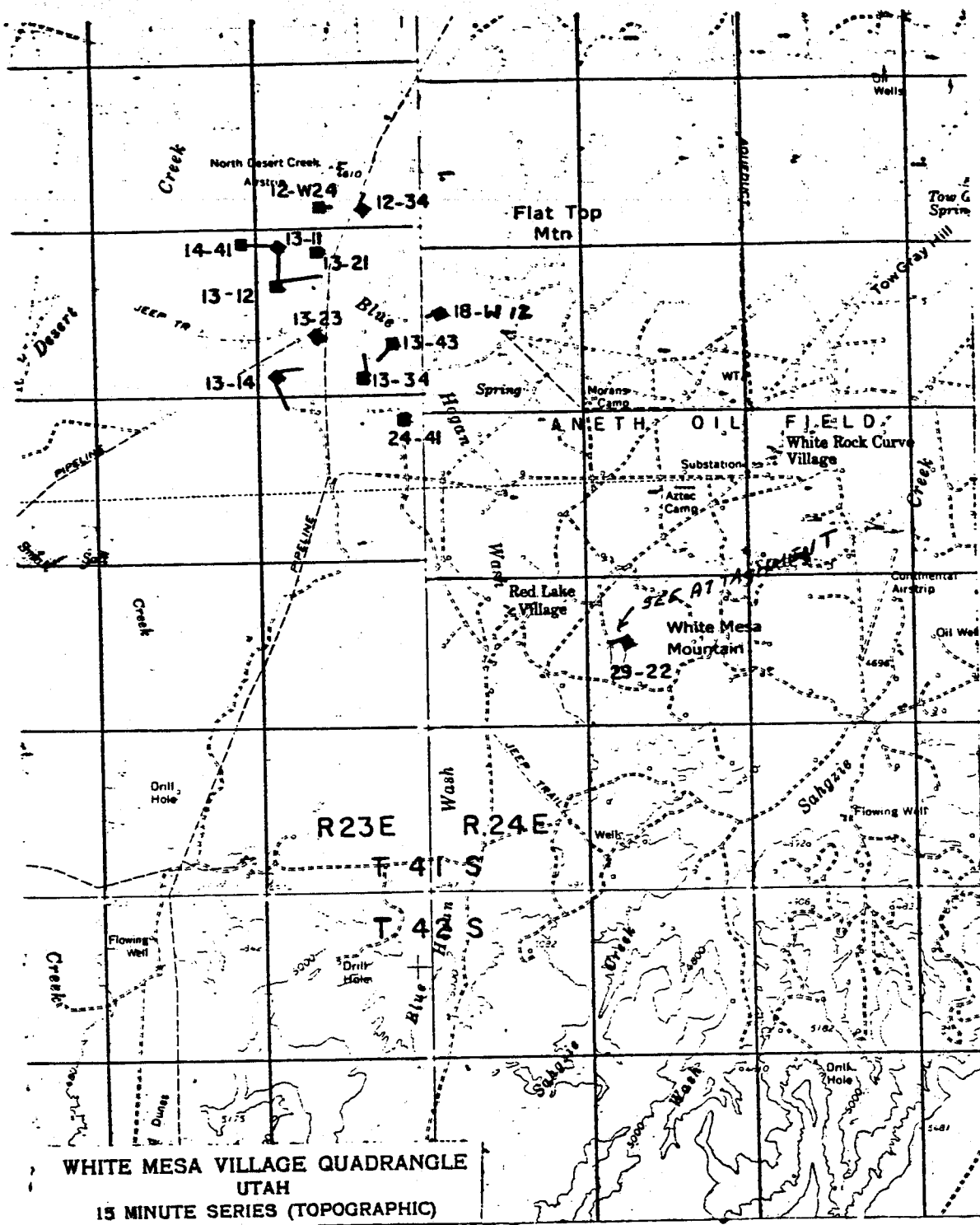


Figure 2. Locations of proposed well locations, access roads and flow line routes.

Map Scale: 1:62,500

TABLE 3

## Description of Well Pad Project Area and Area Surveyed

| Well Pad | Project Area (square feet)   | Area Surveyed (square feet)  |
|----------|--|--|
| 12-W24   | 300 ft X 350 ft = 105,000<br>(2.41 acres)<br>Access route = 300 ft                       | 400 ft X 450 ft = 180,000<br>(4.13 acres)<br>300 ft X 100 ft = 30,000<br>(0.69 acres)  |
| 12-34    | 300 ft X 350 ft = 105,000<br>(2.41 acres)<br>Access & flow line = 600 ft                 | 400 ft X 450 ft = 180,000<br>(4.13 acres)<br>600 ft X 125 ft = 75,000<br>(1.72 acres)  |
| 14-41    | 300 ft X 350 ft = 105,000<br>(2.41 acres)<br>Access & flow line = 1,000 ft               | 400 ft X 450 ft = 180,000<br>(4.13 acres)<br>1,000 ft X 125 ft = 125,000<br>(2.87 acres)   |
| 13-11    | 300 ft X 350 ft = 105,000<br>(2.41 acres)<br>Access & flow line = 800 ft                 | 400 ft X 450 ft = 180,000<br>(4.13 acres)<br>800 ft X 125 ft = 100,000<br>(2.30 acres)   |
| 13-12    | 300 ft X 350 ft = 105,000<br>(2.41 acres)<br>Access & flow line = 1,300 ft               | 400 ft X 450 ft = 180,000<br>(4.13 acres)<br>1,300 ft X 125 ft = 162,500<br>(3.73 acres)   |
| 13-14    | 300 ft X 350 ft = 105,000<br>(2.41 acres)<br>Access route = 800 ft<br>Flow line = 700 ft | 400 ft X 450 ft = 180,000<br>(4.13 acres)<br>800 ft X 125 ft = 100,000<br>(2.30 acres)<br>700 ft X 100 ft = 70,000<br>(1.61 acres) |
| 13-21    | 300 ft X 350 ft = 105,000<br>(2.41 acres)<br>No access or flow line surveyed             | 400 ft X 450 ft = 180,000<br>(4.13 acres)  |
| 13-23    | 300 ft X 350 ft = 105,000<br>(2.41 acres)<br>No access or flow line surveyed             | 400 ft X 450 = 180,000<br>(4.13 acres)   |
| 13-34    | 300 ft X 350 ft = 105,000<br>(2.41 acres)<br>Access and flow line = 600 ft               | 400 ft X 450 ft = 180,000<br>(4.13 acres)<br>600 ft X 125 ft = 75,000<br>(1.72 acres)  |

TABLE 3, continued

| Well Pad- | Project Area (square feet)   | Area Surveyed (square feet)  |
|-----------|--|--|
| 13-43     | 300 ft X 350 ft = 105,000<br>(2.41 acres)<br>Access & flow line = 600 ft     | 400 ft X 450 ft = 180,000<br>(4.13 acres)<br>600 ft X 125 ft = 75,000<br>(1.72 acres)  |
| 18-W12    | 300 ft X 350 ft = 105,000<br>(2.41 acres)<br>Access & flow line = 500 ft     | 400 ft X 450 ft = 180,000<br>(4.13 acres)<br>500 ft X 125 ft = 62,500<br>(1.43 acres)  |
| 24-41     | 300 ft X 350 ft = 105,000<br>(2.41 acres)<br>No access or flow line surveyed | 400 ft X 450 ft = 180,000<br>(4.13 acres)  |
| 29-22     | 300 ft X 350 ft = 105,000<br>(2.41 acres)<br>Access & flow line = 900 ft     | 400 ft X 450 ft = 180,000<br>(4.13 acres)<br>900 ft X 125 ft = 112,500<br>(2.58 acres) |

Note: The figures for access route and flow line lengths are only for the portions that cross undisturbed areas. Portions that follow maintained roads or existing flow line routes were not surveyed and those figures are not provided here.

## RESULTS

One archaeological site and 17 isolated finds were encountered during the survey. The archaeological site, a Basketmaker II to Pueblo I lithic scatter (SJC-1106) had been previously recorded by San Juan College Cultural Resources Management Program (see appendix for site description). The site had been located during the survey of a proposed access route to Phillips Oil Company's proposed well location # 18-24, and relocated during the survey of the Phillips Oil Company proposed injection line pipeline. The site was encountered at the junction of the mainline and line J (Figure 4).

SEE ATTACHMENT The injection line crosses through the extreme southwest portion of the site, where it has been disturbed by previous pipeline and road construction. Four pieces of lithic debitage were encountered in the pipeline right-of-way outside of the disturbed area. These artifacts appear to be surficial. Resurvey of the site area found artifact concentrations to occur in the existing roadway and bladed pipeline valve area. Approximately 20 pieces of lithic debitage, one biface, one uniface (chopper), and two unidentified Mesa Verde white ware sherds (7 mm thick with sand temper) were noted during the resurvey. Note: the projectile point fragments were not relocated. The integrity of these deposits has been greatly disturbed by blading activities. Despite the disturbed nature of the site, the potential for buried deposits remains. Also, there is good probability that the site is multicomponent due to the presence of the Archaic diagnostic and the relatively late Puebloan white ware ceramics.

Two alternatives are proposed for this 100 meter section of the pipeline: (1) to build the injection line where proposed with an archaeologist monitoring the construction activities, or (2) to reroute the mainline in order to avoid the site area. This alternative would require an archaeologist to survey the new route.

The remaining cultural materials were isolated finds. A total of 17 isolated finds were encountered during the survey. All are surficial occurrences and are described in Table 5.

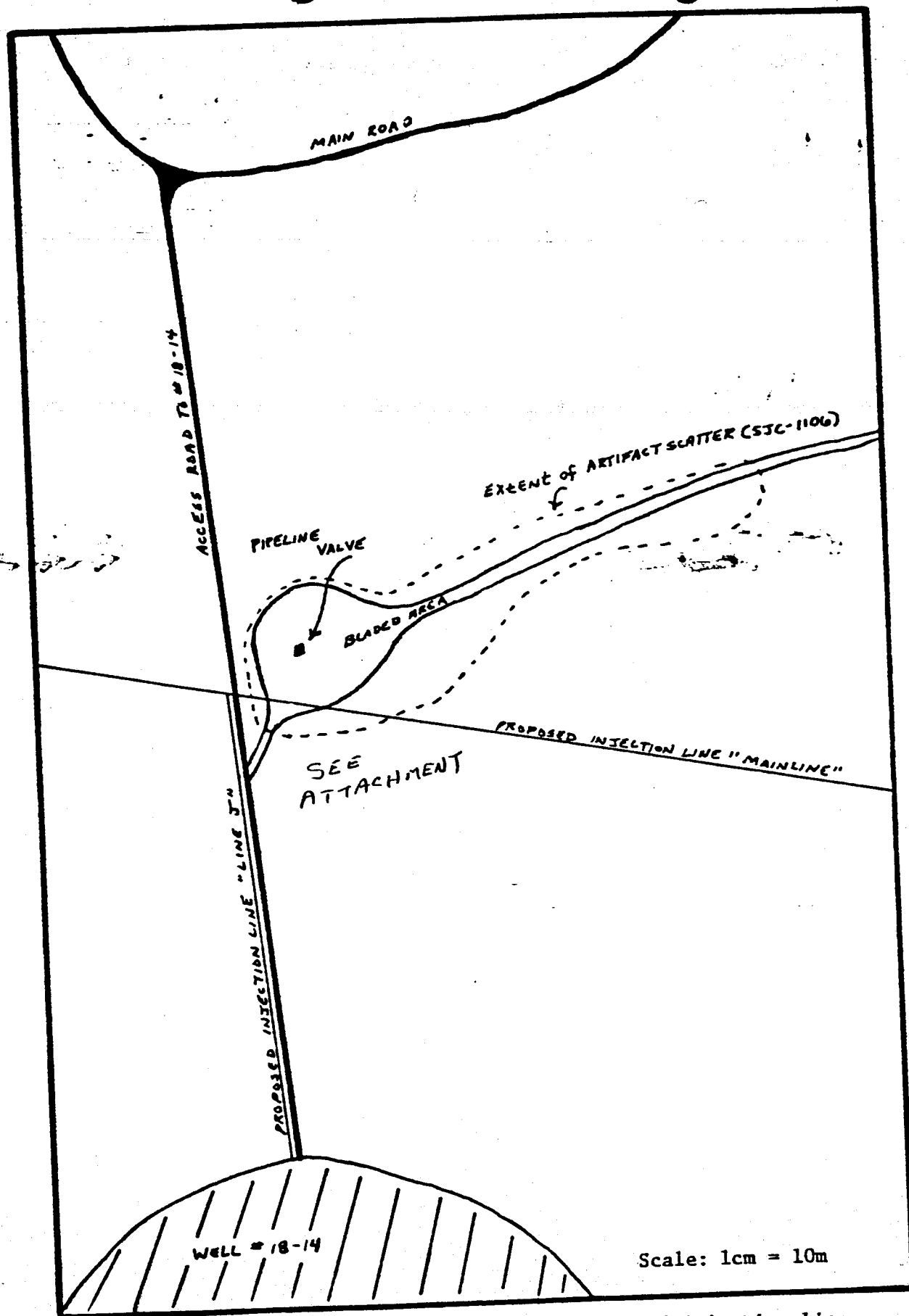


Figure 4. Map showing relationship of proposed injection line route and archaeological site - SJC-1106. Site Location: Center of E 1/2, W 1/2, SW 1/2 of Section 18, T 41 S - R 24 E, San Juan County, Utah.



TABLE 5

Isolated Finds from Phillips Oil Rutherford Unit Project  
Legal Locations and Descriptions

| Number | Legal Location   | Description  |
|--------|--|--|
| RU # A | CTSESW Sec.12 T41S R23E<br>UTM: 647,000 m E<br>4,121,825 m N | On location 12-W24. Isolated features: semi-circular, slab feature and two slab piles; a broken cup saucer found inside--white ovenware, modern; unidentified pipe fragments, wire and sole of shoe. |
| RU # B | CTNENW Sec.13 T41S R23E<br>UTM: 647,000 m E<br>4,121,400 m N | 13-21. 3 gray-green chert, interior core reduction flakes.   |
| RU # C | CTNWNW Sec.13 T41S R23E<br>UTM: 646,600 m E<br>4,121,950 m N | 13-11. Gray and red quartzite cobble tool; 3 flakes removed.   |
| RU # D | CTNWSW Sec.13 T41S R23E<br>UTM: 647,000 m E<br>4,120,600 m N | *13-23. Biface with crude, heavily weathered flake scars, material type is light and dark gray mottled chert with tan cortex.  |
| RU # E | NWSWSE Sec.13 T41S R23E<br>UTM: 647,690 m E<br>4,120,400 m N | Access road to 13-34. 4 unidentified corrugated sherds; 4 recent Pepsi bottles.  |
| RU # F | CTSWSE Sec.13 T41S R23E<br>UTM: 647,700 m E<br>4,120,200 m N | *13-43. 1 crude olive-green oolitic chert biface.  |
| RU # G | NENENE Sec.14 T41S R23E<br>UTM: 646,250 m E<br>4,121,950 m N | 1 Mesa Verde white ware sherd.   |
| RU # H | NENWNW Sec.13 T41S R23E<br>UTM: 646,775 m E<br>4,121,550 m N | *Injection line 12-24 to 13-11. 1 grainy, tan to yellow chert uniface with heavily weathered, yellowish patina; flake scars are smooth.  |
| RU # I | NWNWNE Sec.18 T41S R24E<br>UTM: 648,950 m E<br>4,121,325 m N | 18-21 to 18-41. 3 green quartzite interior core reduction flakes.  |

TABLE 5, continued

| Number | Legal Location   | Description   |
|--------|--|---|
| RU # J | NWSESE Sec.18 T41S R24E<br>UTM: 649,300 m E<br>4,120,150 m N | 18-44 to 18-34. 1 gray-tan quartzite, utilized, secondary reduction flake; 1 green quartzite secondary reduction flake. |
| RU # K | NESWSW Sec.18 T41S R24E<br>UTM: 648,450 m E<br>4,120,175 m N | 18-34 to 18-14. 1 white quartzite, tertiary reduction flake; 1 green-gray quartzite, tertiary reduction flake.          |
| RU # L | NWSWE Sec.17 T41S R24E<br>UTM: 650,400 m E<br>4,120,100 m N  | 17-14 to 17-44. 2 white chert, interior core reduction flakes.  |
| RU # M | SWNWSW Sec.18 T41S R24E<br>UTM: 648,200 m E<br>4,120,350 m N | 18-13 to 18-14. 4 gray quartzite, secondary reduction flakes.   |
| RU # N | NWSESE Sec.13 T41S R23E<br>UTM: 647,700 m E<br>4,120,350 m N | 13-33 to 13-44. 3 gray-green quartzite, interior core reduction flakes; 1 secondary reduction flake.                    |
| RU # O | SESENW Sec.13 T41S R23E<br>UTM: 647,025 m E<br>4,121,000 m N | *13-22 to 13-33. 1 green chert uniface with brown patina; 1 tan quartzite, tertiary reduction flake.                    |
| RU # P | SWSESE Sec.12 T41S R23E<br>UTM: 647,700 m E<br>4,121,725 m N | *13-31 to 12-44. 1 green-gray quartzite uniface.  |
| RU # Q | NESESE Sec.13 T41S R23E<br>UTM: 647,075 m E<br>4,121,100 m N | *13-22 to 13-31. 1 gray quartzite uniface with tan to brown patina.   |

\* illustrated isolated finds.

note: all UTM coordinates are in zone 12.

## RECOMMENDATIONS

SEE ATTACHMENT

One potentially significant archaeological site was encountered during the survey. As outlined in section "Results", the 100 meters of injection line (the mainline) west of line J can either be constructed as planned or rerouted. If the line is positioned as proposed, an archaeologist should be present to monitor construction of the 100 meters of mainline injection pipeline, extending east from line J. In the event that buried cultural deposits are encountered, construction should stop and the BIA area archaeologist be notified. The other alternative would be to reroute a portion of the mainline in order to avoid the site. An archaeological clearance would be needed if a new route is proposed. ← NEW ROUTE HAS BEEN SURVEYED SEE ATTACHMENT

The remaining cultural resources encountered during the survey were isolated finds which indicate prehistoric and modern use of the area. Most of these are the waste products from flint knapping activities. Several unifacial tools and one biface were also found. Recordation has exhausted the research potential of these isolated finds. Archaeological clearance is recommended for the proposed Rutherford Unit development project well locations, associated access roads and flow lines, and for the proposed injection line routes: mainline and lines A, B, C, D, E, F, F-1, G, H, I, and J, except for the 100 meter of mainline extending east from its junction with line J.

## REFERENCES CITED

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Nickens, Paul R.  
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- 1978 "Decision Making in Modern Surveys", IN Advances in Archaeological Method and Theory, Vol.1, edited by M.B. Schiffer, pp. 383-421. Academic Press, New York.

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Weber, Kenneth R.

- 1980 Cultural Resource Narrative for Class I Cultural Resources Inventory for BLM Lands in South San Juan County, Utah, part 2, "History and Contemporary Cultures". Centuries Research, Inc. (Edition for draft only).

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OPERATOR Phillips Oil Co. DATE 10-5-84  
WELL NAME Rathford Unit #29-22  
SEC SE NW 29 T 41S R 24E COUNTY San Juan

43-037-31082  
API NUMBER

Indian  
TYPE OF LEASE

POSTING CHECK OFF:

☐ INDEX

☐ NID

☐ MAP

☐ Spoke with 3-4-85

☐ James Gentry in  
~~at~~ Denver letting

☐ him know that and

PROCESSING COMMENTS:

Unit well - OK on P.O.  
Water &

Sundry was not  
received

Steve Mason

APPROVAL LETTER:

SPACING: ☒ A-3 Rathford  
UNIT

☐ c-3-a \_\_\_\_\_  
CAUSE NO. & DATE

☐ c-3-b

☐ c-3-c

SPECIAL LANGUAGE:

1- Directional well

OPERATOR Phillips Oil Co. DATE 10-5-84  
WELL NAME Rathford Unit #29-22  
SEC SE NW 29 T 41S R 24E COUNTY San Juan

43-037-31082  
API NUMBER

Indian  
TYPE OF LEASE

POSTING CHECK OFF:

☐

INDEX

☐

HL

☐☐

NID

☐

PI

☐☐

MAP

☐☐

PROCESSING COMMENTS:

Unit well - OK on POD - (BLM - New Mexico - Steve Mason)  
Water &

APPROVAL LETTER:

SPACING:

☒

A-3

Rathford  
UNIT

☐

c-3-a

CAUSE NO. & DATE

☐

c-3-b

☐

c-3-c

SPECIAL LANGUAGE:

1 - Directional well



RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.



AUTHENTICATE LEASE AND OPERATOR INFORMATION



VERIFY ADEQUATE AND PROPER BONDING



AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.



APPLY SPACING CONSIDERATION



ORDER \_\_\_\_\_



UNIT \_\_\_\_\_



c-3-b



c-3-c



CHECK DISTANCE TO NEAREST WELL.



CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.



IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER



IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.





STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

October 10, 1984

Phillips Oil Company  
P. O. Box 2920  
Casper, Wyoming 82602

Gentlemen:

Re: Well No. Ratherford Unit #29-22 - SE NW Sec. 29, T. 41S, R. 24E  
(Surface) 2130' FNL, 1370' FWL, (BHL) 2022' FNL, 2046' FWL  
San Juan County, Utah

Approval to drill the above referenced oil well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Submittal of directional drilling data upon completion of drilling operations to properly ascertain the location of the producing formation.

In addition, the following actions are necessary to fully comply with this approval:

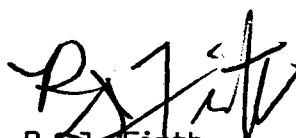
1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 533-5771, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2  
Phillips Oil Company  
Well No. Ratherford Unit #29-22  
October 10, 1984

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31082.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: Branch of Fluid Minerals  
Bureau of Indian Affairs

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYForm Approved.  
Budget Bureau No. 42-R1424

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well ☐ gas well ☐ other
2. NAME OF OPERATOR  
Phillips Oil Company
3. ADDRESS OF OPERATOR  
8055 E. Tufts Ave. Pkwy., Denver, CO 80237
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 2130' FNL, 1370' FWL (SE NW)  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH: 2022' FNL, 2046' FWL (SE NW)
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) ☐

## SUBSEQUENT REPORT OF:

☐  
☐  
☐  
☐  
☐  
☐  
☐  
☐  
☐

5. LEASE  
14-20-603-407
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo
7. UNIT AGREEMENT NAME  
SW-I-4192
8. FARM OR LEASE NAME  
Ratherford Unit
9. WELL NO.  
#29-22
10. FIELD OR WILDCAT NAME  
Greater Aneth
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 29-T41S-R24E
12. COUNTY OR PARISH  
San Juan
13. STATE  
Utah
14. API NO.  
43-037-31082
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4984.6' Graded Grd.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Drilled 18" conductor hole to 116' on 12-11-84. Ran 116' 13-3/8" 54.5 K-55 Buttress conductor casing. Set @ 116', cemented with 177 cu.ft. (150 sxs) Class 'B' to surface. Finished job and moved out rat hole driller 12-12-84.

Spudded well 12-14-84 with Energy Search #2. Drilled 12 1/4" hole to 1618' RKB. Ran 1618' 9-5/8" 36# K-55 ST&C surface casing. Cemented with 968 cu.ft. (400 sx) Class 'B' w/20% Diacel D; tailed with 354 cu.ft. (300 sx) Class 'B' cement. Job completed 12-16-84.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Donald W. Burk TITLE Drilling Manager DATE 4 Jan 1985

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

Budget Bureau No. 1004-0137  
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_  
2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. EXPR. ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR  
Phillips Oil Company

3. ADDRESS OF OPERATOR  
P. O. Box 2920, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 2130' FNL & 1370' FWL, SE NW  
At top prod. interval reported below  
At total depth 2025 FNL + 2047 FWL

API #43-037-31082

15. DATE SPUDDED 12/14/84 16. DATE T.D. REACHED 1/5/85 17. DATE COMPL. (Ready to prod.) 2/3/85

18. ELEVATIONS (DF, RKB, RT, OR, ETC.)\* GR 4976', RKB 4989.5'

20. TOTAL DEPTH, MD & TVD 5912' 21. PLUG BACK T.D., MD & TVD 5891'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
5810' - 5873' Desert Creek Zone I

26. TYPE ELECTRIC AND OTHER LOGS RUN  
DLI/MEI, CDL/CNL/GR, MSLC

| 29. CASING RECORD (Report all strings set in well) |                 |                |           |                       |               |
|--|-----------------|----------------|-----------|-----------------------|---------------|
| CASING SIZE  | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | CEMENTING RECORD      | AMOUNT PULLED |
| 13-3/8"  | 54.5#           | 116'           | 18"       | 177 cu.ft. Class "B"  | --            |
| 9-5/8"   | 36#             | 1618'          | 12-1/4"   | 1322 cu.ft. Class "B" | --            |
| 7"   | 23# & 26#       | 5899'          | 8-3/4"    | 1504 cu.ft. Class "B" | --            |

| 29. LINER RECORD |          |             |               |             | 30. TUBING RECORD |                |                 |
|------------------|----------|-------------|---------------|-------------|-------------------|----------------|-----------------|
| SIZE             | TOP (MD) | BOTTOM (MD) | BACKS CEMENT* | SCREEN (MD) | SIZE              | DEPTH SET (MD) | PACKER SET (MD) |
| --               | --       | --          | --            | --          | 2-7/8"            | 5776'          | 5776'           |

31. PERFORATION RECORD (Interval, size and number)  
5864-73', 2 SPF, 4" HSC Gun, 19 shots  
5844-50', 2 SPF, 4" HSC Gun, 13 shots  
5810-16', 2 SPF, 4" HSC Gun, 13 shots  
5818-30', 2 SPF, 4" HSC Gun, 24 shots

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  
DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED  
5810-5873' - Pmpd in 1675 gal 28% acid w/4 gal/1000 Lo-Surf 259, 2 gal/1000 HC-2 & 2-1/2 gal/1000 HAI-60. RFC Valve failed, acid U-tubed. Fished standing valve. (CONTINUED ON BACK)

33. PRODUCTION  
DATE FIRST PRODUCTION 2/3/85  
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing  
WELL STATUS (Producing or shut-in) Producing

DATE OF TEST 2/6/85 HOURS TESTED 24 CHOKE SIZE 20/64"

PROD'N. FOR TEST PERIOD  
OIL—BBL. 201 GAS—MCF. 80 WATER—BBL. 3 GAS-OIL RATIO 400

FLOW. TUBING PRESS. 210 CASING PRESSURE -- CALCULATED 24-HOUR RATE  
OIL—BBL. 201 GAS—MCF. 80 WATER—BBL. 3 OIL GRAVITY-API (CORR.) 40.0

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
Sold

35. LIST OF ATTACHMENTS  
None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED A. E. Stuart TITLE Area Manager DATE February 15, 1985

DISTRIBUTION ON BACK \*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38.

GEOLOGIC MARKERS

| FORMATION                                   | TOP  | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME         | TOP         |                  |
|---|--|--------|-----------------------------|--------------|-------------|------------------|
|   |  |        |                             |              | MEAS. DEPTH | TRUE VERT. DEPTH |
| NO. 32 CONTINUED -                          |  |        |                             | LOG TOPS     |             |                  |
| INTERVAL                                    | AMOUNT & KIND OF MATERIAL USED   |        |                             |              |             |                  |
| 5810-5873'                                  | Pmpd 35 BW down tbgs to displace acid. Run new RFC Valve. Break down w/50 gal/ft. 28% FE Acid w/4 gal/1000 Lo-Surf 259 and 2-1/2 gal/1000 HAI-60. Pmpd in 3350 gal acid w/100, 1.1 sp grav, ball sealers. Drop 15 ball sealers in 1st 40 gal acid. Drop 85 ball sealers evenly spaced thru out acid. Balled off, couldn't get balls to surge. Reversed out 600 gal acid to pit. PU 4 jts tbgs to knock ball sealers off perfs. Well went on vac. |        |                             | Shinarump    | 2485'       |                  |
|   |  |        |                             | DeChelly     | 2830'       |                  |
|   |  |        |                             | Hermosa      | 4772'       |                  |
|   |  |        |                             | Desert Creek | 5793'       |                  |
| Distribution:                               |  |        |                             |              |             |                  |
| 4 - BLM, Farmington, NM                     |  |        |                             |              |             |                  |
| 2 - Utah O&G CC, Salt Lake City, UT         |  |        |                             |              |             |                  |
| 1 - The Navajo Nation, Window Rock, AZ      |  |        |                             |              |             |                  |
| 1 - B. A. Conner, B. Ville                  |  |        |                             |              |             |                  |
| 1 - L. R. Williamson (r) G. W. Berk, Denver |  |        |                             |              |             |                  |
| 1 - R. M. Coffelt (r) Pat Bertuzzi, Denver  |  |        |                             |              |             |                  |
| 1 - D. L. Fraser, Denver                    |  |        |                             |              |             |                  |
| 1 - O. G. Poling, Denver                    |  |        |                             |              |             |                  |
| 1 - W. I. Owners                            |  |        |                             |              |             |                  |
| 1 - P. J. Adamson                           |  |        |                             |              |             |                  |
| 1 - File RC                                 |  |        |                             |              |             |                  |

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR  
Phillips Oil Company
3. ADDRESS OF OPERATOR  
8055 E. Tufts Ave. Pkwy., Denver, CO 80237
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 2130' FNL, 1370' FWL  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH: 2025.9' FNL, 2044.98' FWL
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) ☐

## SUBSEQUENT REPORT OF:

☐  
☐  
☐  
☐  
☐  
☐  
☐  
☐

5. LEASE  
14-20-603-407
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo
7. UNIT AGREEMENT NAME  
SW-I-4192
8. FARM OR LEASE NAME  
Ratherford Unit
9. WELL NO.  
#29-22
10. FIELD OR WILDCAT NAME  
Greater Aneth
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 29-T41S-R24E
12. COUNTY OR PARISH  
San Juan
13. STATE  
Utah
14. API NO.  
43-037-31082
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4984.6' Graded Grd.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Drilled 8 3/4" hole to 5849', 5836.77 TVD. Ran 5899' of 7" 23# & 26# K-55 STC casing. Cemented with 1144 cu.ft. (400 sx.) Class "B" w/20% Diacel D; tailed with 360 cu.ft. (300 sx.) Class 'B' w/18% salt. Job completed 1-7-85. Plug Back Total Depth 5881'.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE For Drilling Manager DATE Mar. 1, 1985

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

# Mobil Oil Corporation

P.O. BOX 5444  
DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

RECEIVED  
MAY 16 1986

Attn: R. J. Firth  
Associate Director

DIVISION OF  
OIL, GAS & MINING

## SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,



CNE/rd  
CNE8661

R. D. Baker  
Environmental Regulatory Manager

STATE OF UTAH  
DIVISION OF OIL, GAS AND MININGPage 1 of 10

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

P J KONKEL  
PHILLIPS PETROLEUM COMPANY  
5525 HWY 64 NBU 3004  
FARMINGTON NM 87401

RECEIVED

AUG 16 1993

ACCOUNT NUMBER: N0772

REPORT PERIOD (MONTH/YEAR):

6 / 93

DIVISION OF  
OIL, GAS & MININGAMENDED REPORT ☐ (Highlight Changes)

| Well Name  |        |            | Producing<br>Zone | Well<br>Status | Days<br>Oper | Production Volumes |          |            |
|------------|--------|------------|-------------------|----------------|--------------|--------------------|----------|------------|
| API Number | Entity | Location   |                   |                |              | OIL(BBL)           | GAS(MCF) | WATER(BBL) |
| #21-23     |        |            |                   |                |              |                    |          |            |
| 4303713754 | 06280  | 41S 24E 21 | DSCR              | POW            | 29           | 1374               | 883      | 58         |
| #3-44      |        |            |                   |                |              |                    |          |            |
| 4303715031 | 06280  | 41S 24E 3  | DSCR              | POW            | 30           | 111                | 94       | 2905       |
| #3-14      |        |            |                   |                |              |                    |          |            |
| 4303715124 | 06280  | 41S 24E 3  | DSCR              | POW            | 30           | 67                 | 23       | 302        |
| #9-12      |        |            |                   |                |              |                    |          |            |
| 4303715126 | 06280  | 41S 24E 9  | DSCR              | POW            | 30           | 112                | 654      | 17363      |
| #9-14      |        |            |                   |                |              |                    |          |            |
| 4303715127 | 06280  | 41S 24E 9  | DSCR              | POW            | 30           | 201                | 315      | 423        |
| #28-12     |        |            |                   |                |              |                    |          |            |
| 4303715336 | 06280  | 41S 24E 28 | PRDX              | POW            | 29           | 112                | 47       | 2428       |
| #29-12     |        |            |                   |                |              |                    |          |            |
| 4303715337 | 06280  | 41S 24E 29 | PRDX              | POW            | 29           | 56                 | 0        | 672        |
| #29-32     |        |            |                   |                |              |                    |          |            |
| 4303715339 | 06280  | 41S 24E 29 | DSCR              | POW            | 29           | 1402               | 287      | 2224       |
| #29-34     |        |            |                   |                |              |                    |          |            |
| 4303715340 | 06280  | 41S 24E 29 | DSCR              | POW            | 29           | 757                | 48       | 0          |
| #30-32     |        |            |                   |                |              |                    |          |            |
| 4303715342 | 06280  | 41S 24E 30 | DSCR              | POW            | 29           | 588                | 1049     | 3744       |
| #3-12      |        |            |                   |                |              |                    |          |            |
| 4303715620 | 06280  | 41S 24E 3  | DSCR              | POW            | 30           | 268                | 11       | 363        |
| #9-34      |        |            |                   |                |              |                    |          |            |
| 4303715711 | 06280  | 41S 24E 9  | DSCR              | POW            | 30           | 45                 | 46       | 9800       |
| #10-12     |        |            |                   |                |              |                    |          |            |
| 4303715712 | 06280  | 41S 24E 10 | DSCR              | POW            | 30           | 45                 | 23       | 1088       |
| TOTALS     |        |            |                   |                |              | 5138               | 3480     | 41370      |

COMMENTS: Effective July 1, 1993, Phillips Petroleum Company has sold its interest in the  
 Ratherford Unit to Mobil Exploration and Producing U.S., Incorporated, P. O. Box  
 633, Midland, Texas 79702. Mobil assumed operations on July 1, 1993.

I hereby certify that this report is true and complete to the best of my knowledge. Date: 8/11/93

Name and Signature: PAT KONKEL

Pat Konkell

Telephone Number: 505 599-3452



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

|  |  |  |  |
|--|--|--|--|
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><small>(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)</small> |  | 5. LEASE DESIGNATION & SERIAL NO.<br><br>6. IF INDIAN, ALLOTTEE OR TRIBE NAME<br>NAVAJO TRIBAL |  |
| 1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>  |  | 7. UNIT AGREEMENT NAME<br>RATHERFORD UNIT  |  |
| 2. NAME OF OPERATOR<br>MOBIL OIL CORPORATION   |  | 8. FARM OR LEASE NAME  |  |
| 3. ADDRESS OF OPERATOR<br>P. O. BOX 633 MIDLAND, TX 79702  |  | 9. WELL NO.  |  |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)<br>At surface<br><br>At proposed prod. zone  |  | 10. FIELD AND POOL, OR WILDCAT<br>GREATER ANETH  |  |
| 14. API NO.  |  | 15. ELEVATIONS (Show whether DF, RT, GR, etc.)   |  |
| 12. COUNTY<br>SAN JUAN   |  | 13. STATE<br>UTAH  |  |

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

| NOTICE OF INTENTION TO:  | SUBSEQUENT REPORT OF:   |
|--|---|
| TEST WATER SHUT-OFF <input type="checkbox"/><br>FRACTURE TREAT <input type="checkbox"/><br>SHOOT OR ACIDIZE <input type="checkbox"/><br>REPAIR WELL <input type="checkbox"/><br>(Other) <input type="checkbox"/> | WATER SHUT-OFF <input type="checkbox"/><br>FRACTURE TREATMENT <input type="checkbox"/><br>SHOOTING OR ACIDIZING <input type="checkbox"/><br>(Other) <input type="checkbox"/> CHANGE OF OPERATOR |
| PULL OR ALTER CASING <input type="checkbox"/><br>MULTIPLE COMPLETE <input type="checkbox"/><br>ABANDON <input type="checkbox"/><br>CHANGE PLANS <input type="checkbox"/>   | REPAIRING WELL <input type="checkbox"/><br>ALTERING CASING <input type="checkbox"/><br>ABANDONMENT* <input type="checkbox"/>  |

APPROX. DATE WORK WILL START \_\_\_\_\_ DATE OF COMPLETION \_\_\_\_\_

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

\* Must be accompanied by a cement verification report.

AS OF JULY1, 1993, MOBIL OIL CORPORATION IS THE OPERATOR OF THE RATHERFORD UNIT. ATTACHED ARE THE INDIVIDUAL WELLS.

18. I hereby certify that the foregoing is true and correct.

SIGNED Shirley Dodd

TITLE ENV. & REG TECHNICIAN

DATE 9-8-93

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

Page 1 of 1

## MONTHLY OIL AND GAS DISPOSITION REPORT

OPERATOR NAME AND ADDRESS:

*L. B. Sheffield*

BRIAN BERRY

~~M. E. P. N. A. MOBIL~~POB ~~249031~~ 1807A RENTWY *P.O. DRAWER G*DALLAS TX 75221-9031 *CORTEZ, Co. 81321*UTAH ACCOUNT NUMBER: *N7370*REPORT PERIOD (MONTH/YEAR): *7 / 93*AMENDED REPORT ☐ (Highlight Changes)*\*931006 updated.  
Jee*

| ENTITY<br>NUMBER | PRODUCT | GRAVITY | BEGINNING<br>INVENTORY | VOLUME<br>PRODUCED | DISPOSITIONS  |              |               |       | ENDING<br>INVENTORY |
|------------------|---------|---------|------------------------|--------------------|---------------|--------------|---------------|-------|---------------------|
|                  |         | BTU     |                        |                    | TRANSPORTED   | USED ON SITE | FLARED/VENTED | OTHER |                     |
| 05980            | OIL     |         |                        | <i>177609</i>      | <i>177609</i> | <i>0</i>     |               |       |                     |
|                  | GAS     |         |                        | <i>72101</i>       | <i>66216</i>  | <i>5885</i>  |               |       |                     |
| 11174            | OIL     |         |                        |                    |               |              |               |       |                     |
|                  | GAS     |         |                        |                    |               |              |               |       |                     |
|                  | OIL     |         |                        |                    |               |              |               |       |                     |
|                  | GAS     |         |                        |                    |               |              |               |       |                     |
|                  | OIL     |         |                        |                    |               |              |               |       |                     |
|                  | GAS     |         |                        |                    |               |              |               |       |                     |
|                  | OIL     |         |                        |                    |               |              |               |       |                     |
|                  | GAS     |         |                        |                    |               |              |               |       |                     |
|                  | OIL     |         |                        |                    |               |              |               |       |                     |
|                  | GAS     |         |                        |                    |               |              |               |       |                     |
|                  | OIL     |         |                        |                    |               |              |               |       |                     |
|                  | GAS     |         |                        |                    |               |              |               |       |                     |
|                  | OIL     |         |                        |                    |               |              |               |       |                     |
|                  | GAS     |         |                        |                    |               |              |               |       |                     |
| TOTALS           |         |         |                        | <i>249710</i>      | <i>243825</i> | <i>5885</i>  |               |       |                     |

**RECEIVED**

SEP 13 1993

DIVISION OF  
OIL, GAS & MINING

COMMENTS:

*PLEASE NOTE ADDRESS change. Mobil ~~also~~ production Reports  
will be compiled and sent from the Cortez, Co. office  
in the future.*

I hereby certify that this report is true and complete to the best of my knowledge.

Name and Signature:

*L. B. Sheffield*

Date:

*9/5/93*

Telephone Number:

*303 865 2212  
244 658 2528*

Sept 29, 1993

TO: Lisha Cordova - Utah Mining  
Oil & Gas

FROM: Janice Easley  
BLM Farmington, NM  
505 599-6355

Here is copy of Rutherford Unit  
Successor Operator.

4 pages including this one.

*File: Ratherford Unit (GC)*

RECEIVED  
BLM

SEP 27 11:44

070 FARMINGTON, NM

Navajo Area Office  
P. O. Box 1060  
Gallup, New Mexico 87305-1060

ARES/543

JUL 26 1993

Mr. G. D. Cox  
Mobil Exploration and  
Producing North America, Inc.  
P. O. Box 633  
Midland, Texas 79702

Dear Mr. Cox:

Enclosed for your information and use is the approved Designation of Operator between the Phillips Petroleum Company and Mobil Exploration and Producing North America, Inc. for the Ratherford Unit.

Please note that all other concerned parties will be furnished their copy of the approved document.

Sincerely,

*[Handwritten Signature]*

ACTING Area Director

Enclosure

cc: Bureau of Land Management, Farmington District Office w/enc.  
TNN, Director, Minerals Department w/enc.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF INDIAN AFFAIRS

DESIGNATION OF OPERATOR

RECEIVED  
BLM

Phillips Petroleum Company is, on the records of the Bureau of Indian Affairs, operator of the Ratherford Unit, JUN 27 11:44

AREA OFFICE: Window Rock, Arizona  
LEASE NO: Attached hereto as Exhibit "A"

070 FARMINGTON, NM

and, pursuant to the terms of the Ratherford Unit Agreement, is resigning as Unit Operator effective July 1, 1993, and hereby designates

NAME: Mobil Exploration and Producing North America Inc., duly elected pursuant to the terms of the Ratherford Unit Agreement,

ADDRESS: P. O. Box 633, Midland, Texas 79702  
Attn: G. D. Cox

as Operator and local agent, with full authority to act on behalf of the Ratherford Unit lessees in complying with the terms of all leases and regulations applicable thereto and on whom the authorized officer may serve written or oral instructions in securing compliance with the Operating Regulations (43 CFR 3160 and 25 CFR 211 and 212) with respect to (described acreage to which this designation is applicable):

Attached hereto as Exhibit "A"

Bond coverage under 25 CFR 211, 212 or 225 for lease activities conducted by the above named designated operator is under Bond Number 05202782 (attach copy). Evidence of bonding is required prior to the commencement of operations.

It is understood that this designation of operator does not relieve any lessee of responsibility for compliance with the terms of the leases and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the leases.

In case of default on the part of the designated operator, the lessees will make full and prompt compliance with all regulations, lease terms, stipulations, or orders of the Secretary of the Interior or his representative.

Attached is the appropriate documentation relevant to this document.

The designated operator agrees to promptly notify the authorized officer of any change in the operatorship of said Ratherford Unit.

Phillips Petroleum Company

June 17, 1993

By: M. B. [Signature]  
Attorney-in-Fact

Mobil Exploration and Producing  
North America Inc.

June 11, 1993

By: B. D. [Signature]  
Attorney-in-Fact B.D. MARTINY

[Signature] ACTING AREA DIRECTOR  
APPROVED BY TITLE DATE  
7/9/93

APPROVED PURSUANT, TO SECRETARIAL REDELEGATION ORDER 209 DM 8 AND 230 DM 3.

This form does not constitute an information collection as defined by 44 U.S.C. 3502 and therefore does not require OMB approval.

## EXHIBIT "A"

ATTACHED TO AND MADE A PART OF DESIGNATION OF SUCCESSOR OPERATOR, RATHERFORD UNIT

## EXHIBIT "C"

Revised as of September 29, 1992  
SCHEDULE OF TRACT PERCENTAGE PARTICIPATION

| <u>Tract<br/>Number</u> | <u>Description of Land</u>  | <u>Serial Number<br/>and Effective<br/>Date of Lease</u> | <u>Tract<br/>Percentage<br/>Participation</u> |
|-------------------------|---|--|---|
| 1                       | S/2 Sec. 1, E/2 SE/4 Sec. 2, E/4 Sec. 11,<br>and all of Sec. 12, T-41-S, R-23-E, S.L.M.<br>San Juan County, Utah  | 14-20-603-246-A<br>Oct. 5, 1953                          | 11.0652565                                    |
| 2                       | SE/4 and W/2 SW/4 Sec. 5, the irregular<br>SW/4 Sec. 6, and all of Sec. 7 and 8,<br>T-41-S, R-24-E, San Juan County, Utah                                 | 14-20-603-368<br>Oct. 26, 1953                           | 14.4159942                                    |
| 3                       | SW/4 of Sec. 4, T-41-S, R-24-E,<br>San Juan County, Utah  | 14-20-603-5446<br>Sept. 1, 1959                          | .5763826                                      |
| 4                       | SE/4 Sec. 4, and NE/4 Sec. 9,<br>T-41-S, R-24-E, San Juan County, Utah  | 14-20-603-4035<br>March 3, 1958                          | 1.2587779                                     |
| 5                       | SW/4 of Sec. 3, T-41-S, R-24-E, S.L.M.,<br>San Juan County, Utah  | 14-20-603-5445<br>Sept. 3, 1959                          | .4667669                                      |
| 6                       | NW/4 of Sec. 9, T-41-S, R-24-E, S.L.M.,<br>San Juan County, Utah  | 14-20-603-5045<br>Feb. 4, 1959                           | 1.0187043                                     |
| 7                       | NW/4, W/2 NE/4, and SW/4 Sec. 10, SE/4<br>Sec. 9, T-41-S, R-24-E,<br>San Juan County, Utah  | 14-20-603-4043<br>Feb. 18, 1958                          | 3.5097575                                     |
| 8                       | SW/4 Sec. 9, T-41-S, R-24-E, S.L.M.<br>San Juan County, Utah  | 14-20-603-5046<br>Feb. 4, 1959                           | 1.1141679                                     |
| 9                       | SE/4 Sec. 10 and S/2 SW/4 Sec. 11<br>T-41-S, R-24-E, San Juan County, Utah  | 14-20-603-4037<br>Feb. 14, 1958                          | 2.6186804                                     |
| 10                      | All of Sec. 13, E/2 Sec. 14, and E/2 SE/4<br>and N/2 Sec. 24, T-41-S, R-23-E, S.L.M.,<br>San Juan County, Utah  | 14-20-603-247-A<br>Oct. 5, 1953                          | 10.3108861                                    |
| 11                      | Sections 17, 18, 19 and 20,<br>T-41-S, R-24-E, San Juan County Utah   | 14-20-603-353<br>Oct. 27, 1953                           | 27.3389265                                    |
| 12                      | Sections 15, 16, 21, and NW/4, and W/2 SW/4<br>Sec. 22, T-41-S, R-24-E,<br>San Juan County, Utah  | 14-20-603-355<br>Oct. 27, 1953                           | 14.2819339                                    |
| 13                      | W/2 Section 14, T-41-S, R-24-E,<br>San Juan County, Utah  | 14-20-603-370<br>Oct. 26, 1953                           | 1.8500847                                     |
| 14                      | N/2 and SE/4, and E/2 SW/4 Sec. 29, NE/4 and<br>E/2 SE/4 and E/2 W/2 irregular Sec. 30, and<br>E/2 NE/4 Sec. 32, T-41-S, R-24-E,<br>San Juan County, Utah | 14-20-603-407<br>Dec. 10, 1953                           | 6.9924969                                     |
| 15                      | NW/4 Sec. 28, T-41-S, R24-E<br>San Juan County, Utah  | 14-20-603-409<br>Dec. 10, 1953                           | .9416393                                      |
| 16                      | SE/4 Sec. 3, T-41-S, R-24-E<br>San Juan County, Utah  | 14-20-0603-6504<br>July 11, 1961                         | .5750254                                      |
| 17                      | NE/4 Sec. 3, T-41-S, R-24-E<br>San Juan County, Utah  | 14-20-0603-6505<br>July 11, 1961                         | .5449292                                      |
| 18                      | NW/4 Sec. 3, T-41-S, R-24-E<br>San Juan County, Utah  | 14-20-0603-6506<br>July 11, 1961                         | .5482788                                      |
| 19                      | NE/4 Sec. 4, T-41-S, R24-E<br>San Juan County, Utah   | 14-20-0603-7171<br>June 11, 1962                         | .4720628                                      |
| 20                      | E/2 NW/4 Sec. 4, T-41-S, R-24-E<br>San Juan County, Utah  | 14-20-0603-7172<br>June 11, 1962                         | .0992482                                      |

100% Indian Lands

TOTAL 12,909.74

100.0000000

Division of Oil, Gas and Mining  
**PHONE CONVERSATION DOCUMENTATION FORM**

Route original/copy to:

☐ Well File \_\_\_\_\_  
(Location) Sec\_\_\_\_Twp\_\_\_\_Rng\_\_\_\_  
(API No.) \_\_\_\_\_

☐ Suspense  
(Return Date) \_\_\_\_\_  
(To - Initials) \_\_\_\_\_

☒ Other  
**OPERATOR CHANGE**

1. Date of Phone Call: 10-6-93 Time: 9:30

2. DOGM Employee (name) L. CORDOVA (Initiated Call ☒  
Talked to:

Name GLEN COX (Initiated Call ☐ - Phone No. (915) 688-2114  
of (Company/Organization) MOBIL

3. Topic of Conversation: OPERATOR CHANGE FROM PHILLIPS TO MOBIL "RATHERFORD UNIT".  
(NEED TO CONFIRM HOW OPERATOR WANTS THE WELLS SET UP - MEPNA AS PER BIA APPROVAL  
OR MOBIL OIL CORPORATION AS PER SUNDRY DATED 9-8-93?)

4. Highlights of Conversation: \_\_\_\_\_  
MR. COX CONFIRMED THAT THE WELLS SHOULD BE SET UNDER ACCOUNT N7370/MEPNA AS  
PER BIA APPROVAL, ALSO CONFIRMED THAT PRODUCTION & DISPOSITION REPORTS WILL NOW  
BE HANDLED OUT OF THEIR CORTEZ OFFICE RATHER THAN DALLAS.

MEPNA-

PO DRAWER G

CORTEZ, CO 81321

(303)565-2212

\*ADDRESS CHANGE AFFECTS ALL WELLS CURRENTLY OPERATED BY MEPNA, CURRENTLY  
REPORTED OUT OF DALLAS (MCELMO CREEK).

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:

|   |            |
|---|------------|
| 1 | VLC/47-93  |
| 2 | DT3758-414 |
| 3 | VLC        |
| 4 | RJFY       |
| 5 | JEK        |
| 6 | PL         |

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- ☒ Change of Operator (well sold)      ☐ Designation of Agent  
☐ Designation of Operator      ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 7-1-93)

TO (new operator) M E P N A  
 (address) PO DRAWER G  
CORTEZ, CO 81321  
GLEN COX (915) 688-2114  
 phone (303) 565-2212  
 account no. N7370

FROM (former operator) PHILLIPS PETROLEUM COMPANY  
 (address) 5525 HWY 64 NBU 3004  
FARMINGTON, NM 87401  
PAT KONKEL  
 phone (505) 599-3452  
 account no. N 0772(A)

Well(s) (attach additional page if needed):

**\*RATHERFORD UNIT (NAVAJO)**

|                               |                          |               |           |           |           |                   |
|-------------------------------|--------------------------|---------------|-----------|-----------|-----------|-------------------|
| Name: <b>**SEE ATTACHED**</b> | API: <u>43-037-31082</u> | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |
| Name: _____                   | API: _____               | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |
| Name: _____                   | API: _____               | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |
| Name: _____                   | API: _____               | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |
| Name: _____                   | API: _____               | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |
| Name: _____                   | API: _____               | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |
| Name: _____                   | API: _____               | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |

**OPERATOR CHANGE DOCUMENTATION**

- Sec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Reg. 8-20-93) (6/93 Prod. Rpt. 8-16-93)
- Sec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Reg. 8-31-93) (Rec'd 9-14-93)
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_\_ If yes, show company file number: \_\_\_\_\_.
- Sec 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- Sec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (O&G wells 10-6-93) (Wiw's 10-26-93)
- Sec 6. Cardex file has been updated for each well listed above. (O&G wells 10-6-93) (Wiw's 10-26-93)
- Sec 7. Well file labels have been updated for each well listed above. (O&G wells 10-6-93) (Wiw's 10-26-93)
- Sec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (10-6-93)
- Sec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.



### ENTITY REVIEW

- Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

### BOND VERIFICATION (Fee wells only)

- Yes 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- N/A 2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no)   . Today's date                      19  . If yes, division response was made by letter dated                      19  .

### LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated                      19  , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

### FILMING

1. All attachments to this form have been microfilmed. Date: 11/17 1993.

### FILING

- Yes 1. Copies of all attachments to this form have been filed in each well file.
- Yes 2. The original of this form and the original attachments have been filed in the Operator Change file.

### COMMENTS

931006 BIA/Bfm Approved 7-9-93.

|        |               |                |                           |                              |
|--------|---------------|----------------|---------------------------|------------------------------|
| 19W-21 | 43-037-15741  | 14-20-603-353  | SEC. 19, T41S, R24E       | NE/NW 660' FNL 1860' FWL     |
| 19-22  | 43-037-31046  | 14-20-603-353  | SEC. 19, T41S, R24E       | SE/NW 1840' FNL; 1980' FWL   |
| 19W-23 | 43-037-15742  | 14-20-603-353  | SEC. 19, T41S, R24E       | NE/SW 2080' FSL; 1860' FWL   |
| 19-31  | 43-037-31047  | 14-20-603-353  | SEC. 19, T41S, R24E       | NW/NE 510' FNL; 1980' FEL    |
| 19-32  | 43-037-15743  | 14-20-603-353  | SEC. 19, T41S, R24E       | SW/NE 1980' FNL; 1980' FEL   |
| 19-33  | 43-037-31048  | 14-20-603-353  | SEC. 19, T41S, R24E       | NW/SE 1980' FSL; 1980' FEL   |
| 19-34  | 43-037-15744  | 14-20-603-353  | SEC. 19, T41S, R24E       | SW/SE 660' FSL; 1980' FEL    |
| 19W-41 | 43-037-15745  | 14-20-603-353  | SEC. 19, T41S, R24E       | NE/NE 660' FNL; 660' FEL     |
| 19-42  | 43-037-30916  | 14-20-603-353  | SEC. 19, T41S, R24E       | SE/NE 1880' FNL, 660' FEL    |
| 19W-43 | 43-037-16420  | 14-20-603-353  | SEC. 19, T41S, R24E       | NE/SE 1980' FSL; 760' FEL    |
| 19-44  | 43-037-31081  | 14-20-603-353  | SEC. 19, T41S, R24E       | SE/SE 660' FSL; 660' FEL     |
| 19-97  | 43-037-31596  | 14-20-603-353  | SEC. 19, T41S, R24E       | 2562' FNL, 30' FEL           |
| 20-11  | 43-037-31049  | 14-20-603-353  | SEC. 20, T41S, R24E       | NW/NW 500' FNL; 660' FWL     |
| 20-12  | 43-037-15746  | 14-20-603-353  | SEC. 20, T41S, R24E       | 1980' FNL, 660' FWL          |
| 20-13  | 43-037-30917  | 14-20-603-353  | SEC. 20, T41S, R24E       | NW/SW 2140' FSL, 500' FWL    |
| 20-14  | 43-037-15747  | 14-20-603-353  | SEC. 20, T41S, R24E       | 660' FSL; 660' FWL           |
| 20W-21 | 43-037-16423  | 14-20-603-353  | SEC. 20, T41S, R24E       | 660' FNL; 1880' FWL          |
| 20-22  | 43-037-30930  | 14-20-603-353  | SEC. 20, T41S, R24E       | SE/NW 2020' FNL; 2090' FWL   |
| 20W-23 | 43-037-15748  | 14-20-603-353  | SEC. 20, T41S, R24E       | NW/SW 2080; 2120' FWL        |
| 20-24  | 43-037-30918  | 14-20-603-353  | SEC. 20, T41S, R24E       | SE/SW 820' FSL; 1820' FWL    |
| 20-31  | 43-037-31050  | 14-20-603-353  | SEC. 20, T41S, R24E       | NW/NE 660' FNL; 1880' FEL    |
| 20-32  | 43-037-15749  | 14-20-603-353  | SEC. 20, T41S, R24E       | SW/NE 1980' FNL, 1980' FEL   |
| 20-33  | 43-037-30931  | 14-20-603-353  | SEC. 20, T41S, R24E       | NW/SE 1910' FSL; 2140' FEL   |
| 20-34  | 43-037-15750  | 14-20-603-353  | SEC. 20, T41S, R24E       | 660' FSL; 1850' FEL          |
| 20W-41 | 43-037-15751  | 14-20-603-353  | SEC. 20, T41S, R24E       | NE/NE 660' FNL; 660' FEL     |
| 20-42  | 43-037-31051  | 14-20-603-353  | SEC. 20, T41S, R24E       | SE/NE 1980' FNL; 660' FEL    |
| 20W-43 | 43-037-16424  | 14-20-603-353  | SEC. 20, T41S, R24E       | 2070' FSL; 810' FEL          |
| 20-44  | 43-037-30915  | 14-20-603-353  | SEC. 20, T41S, R24E       | SE/SE 620' FSL; 760' FEL     |
| 20-66  | 43-037-31592  | 14-20-603-353  | SEC. 20, T41S, R24E       | SW/NW 1221' FWL; 1369' FNL   |
| 21-11  | 43-037-31052  | 14-20-603-355  | SEC. 21, T41S, R24E       | NW/NW 660' FNL; 660' FWL     |
| 21-12  | 43-037-15752  | 14-20-603-355  | SEC. 21, T41S, R24E       | 2080' FNL; 660' FWL          |
| 21-13  | 43-037-30921  | 14-20-603-355  | SEC. 21, T41S, R24E       | NW/SW 2030' FSL; 515' FWL    |
| 21-14  | 43-037-15753  | 14-20-603-355  | SEC. 21, T41S, R24E       | SW/SW 660' FSL; 460' FWL     |
| 21W-21 | 43-037-16425  | 14-20-603-355  | SEC. 21, T41S, R24E       | NE/NW 660' FNL; 2030' FWL    |
| 21-32  | 43-037-15755  | 14-20-603-355  | SEC. 21, T41S, R24E       | SW/NE 1880' FNL; 1980' FEL   |
| 21-33  | NA            | 14-20-603-355  | SEC. 21, T41S, R24E       | 2000' FSL; 1860' FEL         |
| 21-34  | 43-037-15756  | 14-20-603-355  | SEC. 21, T41S, R24E       | SW/SE 660' FSL; 1980' FEL    |
| 21W-41 | 43-037-16426  | 14-20-603-355  | SEC. 21, T41S, R24E       | 660' FNL; 810' FEL           |
| 21W-43 | 43-037-16427  | 14-20-603-355  | SEC. 21, T41S, R24E       | NE/NE 1980' FSL; 660' FEL    |
| 24-11  | 43-037-15861  | 14-20-603-247A | SEC. 24, T41S, R24E       | 510' FNL; 810' FWL           |
| 24W-21 | 43-037-16429  | 14-20-603-247  | SEC. 24, T41S, R24E       | 4695' FSL; 3300' FEL         |
| 24W-43 | 43-037-16430  | 14-20-603-247  | SEC. 24, T41S, R24E       | 2080' FSL; 660' FEL          |
| 24-31W | 43-037-15862  | 14-20-603-247A | SEC. 24, T41S, R24E       | NW/NE 560' FNL; 1830' FEL    |
| 24-32  | 43-037-31593  | 14-20-603-247A | SEC. 24, T41S, R24E       | SW/NE 2121' FNL; 1846' FEL   |
| 24-41  | 43-037-31132  | 14-20-603-247A | SEC. 24, T41S, R24E       | NE/NE 660' FNL; 710' FEL     |
| 24W-42 | 43-037-15863  | 14-20-603-247A | SEC. 24, T41S, R24E       | 660' FSL; 1980' FNL          |
| 28-11  | 43-037-30446  | 14-20-603-409  | SEC. 28, T41S, R24E       | NW/NW 520' FNL; 620' FWL     |
| 28-12  | 43-037-15336  | 14-20-603-409B | SEC. 28, T41S, R24E       | SW/SE/NW 2121' FNL; 623' FWL |
| 29-11  | 43-037-31053  | 14-20-603-407  | SEC. 29, T41S, R24E       | NW/NW 770' FNL; 585' FWL     |
| 29W-21 | 43-037-16432  | 14-20-603-407  | SEC. 29, T41S, R24E       | NE/NW 667' FNL; 2122' FWL    |
| 29W-23 | 43-037-15338  | 14-20-603-407  | SEC. 29, T41S, R24E       | SE/NW 2130' FNL; 1370' FWL   |
| 29-31  | 43-037-30914  | 14-20-603-407  | SEC. 29, T41S, R24E       | NE/SW 1846' FSL; 1832' FWL   |
| 29-32  | 43-037-15339  | 14-20-603-407  | SEC. 29, T41S, R24E       | NW/NE 700' FNL; 2140' FEL    |
| 29-33  | 43-037-30932  | 14-20-603-407  | SEC. 29, T41S, R24E       | 1951' FNL; 1755' FEL         |
| 29-34  | 43-037-15340  | 14-20-603-407  | SEC. 29, T41S, R24E       | NW/SE 1860' FSL; 1820' FEL   |
| 29W-41 | 43-037-16433  | 14-20-603-407  | SEC. 29, T41S, R24E       | 817' FSL; 2096' FEL          |
| 29W-42 | 43-037-30937  | 14-20-603-407  | SEC. 29, T41S, R24E       | 557' FNL; 591' FEL           |
| 29W-43 | 43-037-16434  | 14-20-603-407  | SEC. 29, T41S, R24E       | SE/NE 1850' FNL; 660' FEL    |
| 30-21W | 43-037-16435  | 14-20-603-407  | SEC. 30, T41S, R24E       | NE/SE 1980' FSL; 660' FEL    |
| 30-32  | 43-037-15342  | 14-20-603-407  | SEC. 30, T41S, R24E       | 660' FNL; 1920' FWL          |
| 30W-41 | 43-037-15343  | 14-20-603-407  | SEC. 30, T41S, R24E       | SW/NE 1975' FNL; 2010' FEL   |
| 3-34   | NA 4303715711 | NA 14206034043 | NA SEC. 9, T. 41S, R. 24E | NA SW/SE 660' FSL 1980' FEL  |
| 12-43  | 43-307-31202  | 14-20-603-246  | SEC. 12, T41S, R23E       | 2100' FSL; 660' FEL          |
| 12W31  | 43-037-15847  | 14-20-603-246  | SEC. 12, T41S, R23E       | 661' FNL; 1981' FEL          |
| 13W24  | 43-037-15853  | 14-20-603-247  | SEC. 13, T41S, R23E       | SE/SW 660' FSL; 3300' FEL    |
| 15W23  | 43-037-16412  | 14-20-603-355  | SEC. 15, T41S, R24E       | 2140' FSL; 1820' FWL         |
| 17-24  | 43-037-31044  | 14-20-603-353  | SEC. 17, T41S, R24E       | SE/SW 720' FSL; 1980' FWL    |
| 18-13  | 43-037-15734  | 14-20-603-353  | SEC. 18, T41S, R24E       | NW/NW 1980' FSL; 500' FWL    |
| 18W32  | 43-037-15736  | 14-20-603-353  | SEC. 18, T41S, R24E       | SW/NE 2140' FNL; 1830' FEL   |
| 20-68  | 43-037-31591  | 14-20-603-353  | SEC. 20, T41S, R24E       | NW/SW 1276' FWL; 1615' FSL   |
| 21-23  | 43-037-13754  | 14-20-603-355  | SEC. 21, T41S, R24E       | NE/SW 1740' FSL 1740' FWL    |
| 28W21  | 43-037-16431  | 14-20-603-409  | SEC. 29, T41S, R24E       | 660' FNL; 2022' FWL          |

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**STATE OF UTAH**  
**DIVISION OF OIL, GAS AND MINING**  
 355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

Page 19 of 22

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

C/O MOBIL OIL CORP  
 M E P N A  
 PO DRAWER G  
 CORTEZ CO 81321

UTAH ACCOUNT NUMBER: N7370REPORT PERIOD (MONTH/YEAR): 6 / 95AMENDED REPORT ☐ (Highlight Changes)

| Well Name                        |       |            | Producing Zone | Well Status | Days Oper | Production Volumes |          |            |
|----------------------------------|-------|------------|----------------|-------------|-----------|--------------------|----------|------------|
| API Number                       | Entry | Location   |                |             |           | OIL(BBL)           | GAS(MCF) | WATER(BBL) |
| RATHERFORD UNIT 20-31            |       |            |                |             |           |                    |          |            |
| 4303731050                       | 06280 | 41S 24E 20 | ISMV           |             |           |                    |          |            |
| RATHERFORD UNIT 20-42            |       |            |                |             |           |                    |          |            |
| 4303731051                       | 06280 | 41S 24E 20 | DSCR           |             |           |                    |          |            |
| RATHERFORD UNIT 21-11            |       |            |                |             |           |                    |          |            |
| 4303731052                       | 06280 | 41S 24E 21 | DSCR           |             |           |                    |          |            |
| RATHERFORD UNIT 29-11            |       |            |                |             |           |                    |          |            |
| 4303731053                       | 06280 | 41S 24E 29 | DSCR           |             |           |                    |          |            |
| RATHERFORD UNIT #18-24           |       |            |                |             |           |                    |          |            |
| 4303731079                       | 06280 | 41S 24E 18 | DSCR           |             |           |                    |          |            |
| RATHERFORD UNIT #19-11           |       |            |                |             |           |                    |          |            |
| 4303731080                       | 06280 | 41S 24E 19 | DSCR           |             |           |                    |          |            |
| RATHERFORD UNIT #19-44           |       |            |                |             |           |                    |          |            |
| 4303731081                       | 06280 | 41S 24E 19 | DSCR           |             |           |                    |          |            |
| RATHERFORD UNIT #29-22           |       |            |                |             |           |                    |          |            |
| 4303731082                       | 06280 | 41S 24E 29 | DSCR           |             |           |                    |          |            |
| RATHERFORD UNIT 12-34            |       |            |                |             |           |                    |          |            |
| 4303731126                       | 06280 | 41S 23E 12 | DSCR           |             |           |                    |          |            |
| RATHERFORD UNIT 13-12            |       |            |                |             |           |                    |          |            |
| 4303731127                       | 06280 | 41S 23E 13 | DSCR           |             |           |                    |          |            |
| RATHERFORD UNIT #13-21           |       |            |                |             |           |                    |          |            |
| 4303731128                       | 06280 | 41S 23E 13 | DSCR           |             |           |                    |          |            |
| RATHERFORD UNIT #13-23           |       |            |                |             |           |                    |          |            |
| 4303731129                       | 06280 | 41S 23E 13 | DSCR           |             |           |                    |          |            |
| RATHERFORD UNIT 13-34 (RE-ENTRY) |       |            |                |             |           |                    |          |            |
| 4303731130                       | 06280 | 41S 23E 13 | DSCR           |             |           |                    |          |            |
| TOTALS                           |       |            |                |             |           |                    |          |            |

REMARKS:

I certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

# PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ **Well File** \_\_\_\_\_  
 (Location) Sec \_\_\_\_ Twp \_\_\_\_ Rng \_\_\_\_  
 (API No.) \_\_\_\_\_

☐ **Suspense**  
 (Return Date) \_\_\_\_\_  
 (To - Initials) \_\_\_\_\_

☒ **Other**  
**OPER NM CHG** \_\_\_\_\_  
 \_\_\_\_\_

1. Date of Phone Call: 8-3-95 Time: \_\_\_\_\_

2. DOGM Employee (name) L. CORDOVA (Initiated Call ☐)  
 Talked to:

Name R. J. FIRTH (Initiated Call ☒) - Phone No. ( ) \_\_\_\_\_  
 of (Company/Organization) \_\_\_\_\_

3. Topic of Conversation: M E P N A / N7370

4. Highlights of Conversation: \_\_\_\_\_

OPERATOR NAME IS BEING CHANGED FROM M E P N A (MOBIL EXPLORATION AND PRODUCING  
NORTH AMERICA INC) TO MOBIL EXPLOR & PROD. THE NAME CHANGE IS BEING DONE AT  
THIS TIME TO ALLEVIATE CONFUSION, BOTH IN HOUSE AND AMONGST THE GENERAL PUBLIC.

\*SUPERIOR OIL COMPANY MERGED INTO M E P N A 4-24-86 (SEE ATTACHED).

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- ☐ Change of Operator (well sold)      ☐ Designation of Agent  
☐ Designation of Operator      **XXX** Operator Name Change Only

|       |        |
|-------|--------|
| 1-LEC | 7-PL   |
| 2-LWP | 8-SJ   |
| 3-BTS | 9-FILE |
| 4-VLC |        |
| 5-RJF |        |
| 6-LWP |        |

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 8-2-95)

TO (new operator) **MOBIL EXPLOR & PROD**  
 (address) **C/O MOBIL OIL CORP**  
**PO DRAWER G**  
**CORTEZ CO 81321**  
 phone **(303) 564-5212**  
 account no. **N7370**

FROM (former operator) **M E P N A**  
 (address) **C/O MOBIL OIL CORP**  
**PO DRAWER G**  
**CORTEZ CO 81321**  
 phone **(303) 564-5212**  
 account no. **N7370**

Well(s) (attach additional page if needed):

|                                 |                       |               |           |           |           |                   |
|---------------------------------|-----------------------|---------------|-----------|-----------|-----------|-------------------|
| Name: <b>** SEE ATTACHED **</b> | API: <u>037 31082</u> | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |
| Name: _____                     | API: _____            | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |
| Name: _____                     | API: _____            | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |
| Name: _____                     | API: _____            | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |
| Name: _____                     | API: _____            | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |
| Name: _____                     | API: _____            | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |
| Name: _____                     | API: _____            | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |

**OPERATOR CHANGE DOCUMENTATION**

- N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_\_ If yes, show company file number: \_\_\_\_\_.
- N/A 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- lec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-95)
- LWP 6. Cardex file has been updated for each well listed above. 8-21-95
- WFP 7. Well file labels have been updated for each well listed above. 9-28-95
- lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-3-95)
- lec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

### ENTITY REVIEW

- See 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

### BOND VERIFICATION (Fee wells only)

*\* No Fee Lease Wells at this time!*

- N/A See 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no)   . Today's date                      19  . If yes, division response was made by letter dated                      19  .

### LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A UTS 8/5/95 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated                      19  , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A 2. Copies of documents have been sent to State Lands for changes involving **State leases**.

### FILMING

- ✓ 1. All attachments to this form have been microfilmed. Date: October 6 1995.

### FILING

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form and the original attachments have been filed in the Operator Change file.

### COMMENTS

950803 LIC F5/Not necessary!

**ExxonMobil Production Company**  
U.S. West  
P.O. Box 4358  
Houston, Texas 77210-4358

June 27, 2001

**ExxonMobil**  
*Production*

Mr. Jim Thompson  
State of Utah, Division of Oil, Gas and Mining  
1549 West North Temple  
Suite 1210  
Salt Lake City, UT 84114-5801

Change of Name – Mobil Oil Corporation to  
ExxonMobil Oil Corporation

Dear Mr. Thompson

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

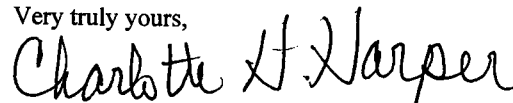
Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

A copy of the Certification, Bond Rider and a list of wells are attached.

If you have any questions please feel free to call Joel Talavera at 713-431-1010

Very truly yours,



Charlotte H. Harper  
Permitting Supervisor

ExxonMobil Production Company  
a division of Exxon Mobil Corporation,  
acting for ExxonMobil Oil Corporation

RECEIVED

JUN 29 2001

DIVISION OF  
OIL, GAS AND MINING



IN REPLY REFER TO:

# United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

XXXXXXXXXXXXXXXXXXXX  
Navajo Area Office  
NAVAJO REGION

P.O. Box 1060

Gallup, New Mexico 87305-1060

AUG 30 2001

RRES/543

## CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Charlotte H. Harper, Permitting Supervisor  
Exxon Mobil Production Company  
U. S. West  
P. O. Box 4358  
Houston, TX 77210-4358

Dear Ms. Harper:

This is to acknowledge receipt of your company's name change from Mobil Oil Corporation to ExxonMobil Oil Corporation effective June 1, 2001. The receipt of documents includes the Name Change Certification, current listing of Officers and Directors, Listing of Leases, Financial Statement, filing fees of \$75.00 and a copy of the Rider for Bond Number 8027 31 97. There are no other changes.

Please note that we will provide copies of these documents to other concerned parties. If you need further assistance, you may contact Ms. Bertha Spencer, Realty Specialist, at (928) 871-5938.

Sincerely,

DENNET DENETSONE

Regional Realty Officer

cc: BLM, Farmington Field Office w/enclosures ✓  
Navajo Nation Minerals Office, Attn: Mr. Akhtar Zaman, Director/w enclosures

|                    |            |
|--------------------|------------|
| MINERAL RESOURCES  |            |
| ADM 1              | <i>QSM</i> |
| NATV AMN COORD     | _____      |
| SOLID AMN TEAM     | _____      |
| PETRO AMN TEAM     | <i>2</i>   |
| O & G INSPECT TEAM | _____      |
| ALL TEAM LEADERS   | _____      |
| LAND RESOURCES     | _____      |
| ENVIRONMENT        | _____      |
| FILES              | _____      |



**ExxonMobil Production Company**  
U.S. West  
P.O. Box 4358  
Houston, Texas 77210-4358

7/12/01

543

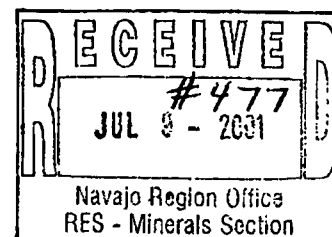
File

June 27, 2001

Certified Mail  
Return Receipt Requested

Ms. Genni Denetsone  
United States Department of the Interior  
Bureau of Indian Affairs, Navajo Region  
Real Estate Services  
P. O. Box 1060  
Gallup, New Mexico 87305-1060  
Mail Code 543

**ExxonMobil**  
Production



Change of Name -  
Mobil Oil Corporation to  
ExxonMobil Oil Corporation

Dear Ms. Denetsone:

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

Attached is the Name Change Certification, Current listing of Officers and Directors, Filing Fee of \$75/-, Listing of Leases, Financial Statement and a copy of the Rider for Bond number 8027 31 97. The original Bond Rider has been sent to Ms. Barbar Davis at your Washington Office.

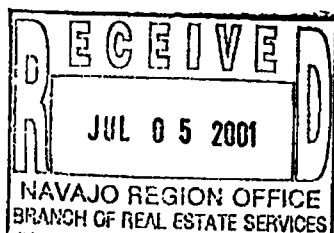
If you have any questions, please contact Alex Correa at (713) 431-1012.

Very truly yours,

*Charlotte H. Harper*

Charlotte H. Harper  
Permitting Supervisor

Attachments



ExxonMobil Production Company  
a division of Exxon Mobil Corporation,  
acting for ExxonMobil Oil Corporation

NOTE: Check forwarded to Ella Issa

Bureau of Indian Affairs  
Navajo Region Office  
Attn: RRES - Mineral and Mining Section  
P.O. Box 1060  
Gallup, New Mexico 87305-1060

Gentlemen:

The current listing of officers and director of ExxonMobil Oil Corporation (Name of Corporation), of New York (State) is as follows:

#### OFFICERS

|                |                    |  |
|----------------|--------------------|--|
| President      | <u>F.A. Risch</u>  | Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u> |
| Vice President | <u>K.T. Koonce</u> | Address <u>800 Bell Street Houston, TX 77002</u>       |
| Secretary      | <u>F.L. Reid</u>   | Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u> |
| Treasure       | <u>B.A. Maher</u>  | Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u> |

#### DIRECTORS

|      |                       |  |
|------|-----------------------|--|
| Name | <u>D.D. Humphreys</u> | Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u> |
| Name | <u>P.A. Hanson</u>    | Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u> |
| Name | <u>T.P. Townsend</u>  | Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u> |
| Name | <u>B.A. Maher</u>     | Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u> |
| Name | <u>F.A. Risch</u>     | Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u> |


Sincerely,



Alex Correa

This is to certify that the above information pertaining to ExxonMobil Oil Corporation (Corporation) is true and correct as evidenced by the records and accounts covering business for the State of Utah and in the custody of Corporation Service Company (Agent), Phone: 1 (800) 927-9800 whose business address is One Utah Center, 201 South Main Street, Salt Lake City, Utah 84111-2218



  
\_\_\_\_\_  
Signature  
AGENT AND ATTORNEY IN FACT  
\_\_\_\_\_  
Title

SAL

CERTIFICATION

I, the undersigned Assistant Secretary of ExxonMobil Oil Corporation. (formerly Mobil Oil Corporation), a corporation organized and existing under the laws of the State of New York, United States of America, DO HEREBY CERTIFY, That, the following is a true and exact copy of the resolutions adopted by the Board of Directors on May 22, 2001:

CHANGE OF COMPANY NAME

WHEREAS, the undersigned Directors of the Corporation deem it to be in the best interest of the Corporation to amend the Certificate of Incorporation of the Corporation to change the name and principal office of the Corporation:

NOW THEREFORE BE IT RESOLVED, That Article 1st relating to the corporate name is hereby amended to read as follows:

"1st The corporate name of said Company shall be,

ExxonMobil Oil Corporation",

FURTHER RESOLVED, That the amendment of the Corporation's Certificate of Incorporation referred to in the preceding resolutions be submitted to the sole shareholder of the Corporation entitled to vote thereon for its approval and, if such shareholder gives its written consent, pursuant to Section 803 of the Business Corporation Law of the State of New York, approving such amendment, the proper officers of the Corporation be, and they hereby are, authorized to execute in the name of the Corporation the Certificate of Amendment of Certificate of Incorporation, in the form attached hereto;

FURTHER RESOLVED, That the proper officers of the Corporation be and they hereby are authorized and directed to deliver, file and record in its behalf, the Certificate of Amendment of Certificate of Incorporation, and to take such action as may be deemed necessary or advisable to confirm and make effective in all respects the change of this Company's name to EXXONMOBIL OIL CORPORATION.

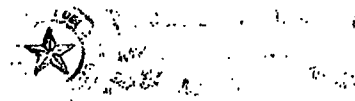
WITNESS, my hand and the seal of the Corporation at Irving, Texas, this 8th day of June, 2001.

S. A. Sullivan  
Assistant Secretary

COUNTY OF DALLAS )  
STATE OF TEXAS )  
UNITED STATES OF AMERICA )

Sworn to and subscribed before me at Irving, Texas, U. S. A. on this the 8th day of June, 2001.

Janice M. Phillips  
Notary Public



**LISTING OF LEASES OF MOBIL OIL CORPORATION****Lease Number**

- 1) 14-20-0603-6504
- 2) 14-20-0603-6505
- 3) 14-20-0603-6506
- 4) 14-20-0603-6508
- 5) 14-20-0603-6509
- 6) 14-20-0603-6510
- 7) 14-20-0603-7171
- 8) 14-20-0603-7172A
- 9) 14-20-600-3530
- 10) 14-20-603-359
- 11) 14-20-603-368
- 12) 14-20-603-370
- 13) 14-20-603-370A
- 14) 14-20-603-372
- 15) 14-20-603-372A
- 16) 14-20-603-4495
- 17) 14-20-603-5447
- 18) 14-20-603-5448
- 19) 14-20-603-5449
- 20) 14-20-603-5450
- 21) 14-20-603-5451

6/1/01

**CHUBB GROUP OF INSURANCE COMPANIES**

1000 Texas Street, Suite 1900, Houston, Texas 77027-3501  
Phone: (713) 297-4600 • Facsimile: (713) 297-4750

*New Bond*

**FEDERAL INSURANCE COMPANY RIDER**  
to be attached to and form a part of

**BOND NO 8027 31 97**

wherein

**Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc. is**  
named as Principal and

**FEDERAL INSURANCE COMPANY AS SURETY,**

in favor of **United States of America, Department of the Interior**  
**Bureau of Indian Affairs**

in the amount of **\$150,000.00**  
bond date: 11/01/65

IT IS HEREBY UNDERSTOOD AND AGREED THAT effective June 1, 2001  
the name of the Principal is changed

FROM: **Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc.**

TO : **ExxonMobil Oil Corporation**

All other terms and conditions of this Bond are unchanged.

Signed, sealed and dated this 12<sup>th</sup> of June, 2001.

ExxonMobil Oil Corporation

By : 

FEDERAL INSURANCE COMPANY

By: 

Mary Pierson, Attorney-in-fact

**Chubb  
Surety****POWER  
OF  
ATTORNEY****Federal Insurance Company  
Vigilant Insurance Company  
Pacific Indemnity Company****Attn.: Surety Department  
15 Mountain View Road  
Warren, NJ 07059**

Know All by These Presents, That **FEDERAL INSURANCE COMPANY**, an Indiana corporation, **VIGILANT INSURANCE COMPANY**, a New York corporation, and **PACIFIC INDEMNITY COMPANY**, a Wisconsin corporation, do each hereby constitute and appoint **R.F. Bobo**, Mary Pierson, Philana Berros, and Jody E. Specht of Houston, Texas-----

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** have each executed and attested these presents and affixed their corporate seals on this 10th day of May, 2001.

Kenneth C. Wendel, Assistant Secretary

Frank E. Robertson, Vice President

STATE OF NEW JERSEY } ss.  
County of Somerset

On this 10th day of May, 2001, before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel being by me duly sworn, did depose and say that he is Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**, and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with Frank E. Robertson, and knows him to be Vice President of said Companies; and that the signature of Frank E. Robertson, subscribed to said Power of Attorney is in the genuine handwriting of Frank E. Robertson, and was thereto subscribed by authority of said Companies in the presence of the Notary Public.



Notary Public State of New Jersey  
No. 2231647

Commission Expires Oct. 29, 2004

Karen A. Price

Notary Public

Extract from the By-Laws of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Kenneth C. Wendel, Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** (the "Companies") do hereby certify that

- (i) the foregoing extract of the By-Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U. S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U. S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this 12th day of June, 2001



Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY  
Telephone (908) 903-3485 Fax (908) 903-3656 e-mail: surety@chubb.com

CSC

5184334741

06/01 '01 08:46 NO.410 03/05

CSC

06/01 '01 09:06 NO.135 02/04

F010601000187

CERTIFICATE OF AMENDMENT  
OF  
CERTIFICATE OF INCORPORATION  
OF  
MOBIL OIL CORPORATION

CSC 45

(Under Section 805 of the Business Corporation Law)

Pursuant to the provisions of Section 805 of the Business Corporation Law, the undersigned President and Secretary, respectively, of Mobil Oil Corporation hereby certify:

FIRST: That the name of the corporation is MOBIL OIL CORPORATION and that said corporation was incorporated under the name of Standard Oil Company of New York.

SECOND: That the Certificate of Incorporation of the corporation was filed by the Department of State, Albany, New York, on the 10th day of August, 1882.

THIRD: That the amendments to the Certificate of Incorporation effected by this Certificate are as follows:

(a) Article 1st of the Certificate of Incorporation, relating to the corporate name, is hereby amended to read as follows:

"1st The corporate name of said Company shall be,  
ExxonMobil Oil Corporation",

(b) Article 7th of the Certificate of Incorporation, relating to the office of the corporation is hereby amended to read as follows:

The office of the corporation within the State of New York is to be located in the County of Albany. The Company shall have offices at such other places as the Board of Directors may from time to time determine.

CSC  
CSC

5184334741

06/01 '01 08:47 NO.410 04/05  
06/01 '01 09:00 NO.133 03/04

FOURTH: That the amendments to the Certificate of Incorporation were authorized by the Board of Directors followed by the holder of all outstanding shares entitled to vote on amendments to the Certificate of Incorporation by written consent of the sole shareholder dated May 22, 2001.

IN WITNESS WHEREOF, this Certificate has been signed this 22nd Day of May, 2001.

  
F. A. Risch, President

STATE OF TEXAS       )  
COUNTY OF DALLAS    )

F. L. REID, being duly sworn, deposes and says that he is the Secretary of MOBIL OIL CORPORATION, the corporation mentioned and described in the foregoing instrument; that he has read and signed the same and that the statements contained therein are true.

  
F. L. REID, Secretary

SUBSCRIBED AND SWORN TO before me, the undersigned authority, on this the 22nd day of May, 2001.

[SEAL]

  
NOTARY PUBLIC, STATE OF TEXAS



=&gt; CSC

.TEL=5184334741

06/01'01 08:19



CSC  
CSC

5184334741

06/01 '01 09:01 NO. 411 02/02  
06/01 '01 09:06 NO. 153 04/04

F010601000187

CSC 45

## CERTIFICATE OF AMENDMENT

OF

MOBIL OIL CORPORATION

Under Section 805 of the Business Corporation Law

100 cc  
STATE OF NEW YORK  
DEPARTMENT OF STATEFiled by: EXXONMOBIL CORPORATION  
(Name)

FILED JUN 01 2001

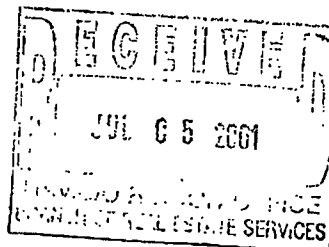
5959 Las Colinas Blvd.  
(Mailing address)

TAX \$

BY: SACIrving, TX 75039-2298  
(City, State and Zip code)

ny / Albany

Cust Ref # 165578 MPJ



010601000195

=&gt; CSC

TEL=5184334741

06/01'01 08:19

*State of New York }  
Department of State } ss:*

*I hereby certify that the annexed copy has been compared with the original document in the custody of the Secretary of State and that the same is a true copy of said original.*

*Witness my hand and seal of the Department of State on* **JUN 01 2001**



*Special Deputy Secretary of State*

### 3. FILE

### Designation of Agent

## Merger

06-01-2001

|                                |                                |
|--------------------------------|--------------------------------|
| <b>FROM:</b> (Old Operator):   | <b>TO:</b> ( New Operator):    |
| MOBIL EXPLORATION & PRODUCTION | EXXONMOBIL OIL CORPORATION     |
| Address: P O BOX DRAWER "G"    | Address: U S WEST P O BOX 4358 |
|                                |                                |
| CORTEZ, CO 81321               | HOUSTON, TX 77210-4358         |
| Phone: 1-(970)-564-5212        | Phone: 1-(713)-431-1010        |
| Account No. N7370              | Account No. N1855              |

Unit: RATHERFORD

## WELL(S)

[illegible]

## OPERATOR CHANGES DOCUMENTATION

5. If **NO**, the operator was contacted contacted on: N/A

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BIA-06/01/01

7. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 06/01/2001

8. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

9. **Underground Injection Control ("UIC")**

The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 04/15/2002
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 04/15/2002
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: N/A

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: N/A

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: 80273197

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A  
The Division sent response by letter on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

**COMMENTS:**

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Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

**ROUTING**

|        |
|--------|
| 1. DJJ |
| 2. CDW |

**X Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **6/1/2006**

**FROM: (Old Operator):**  
 N1855-ExxonMobil Oil Corporation  
 PO Box 4358  
 Houston, TX 77210-4358  
 Phone: 1 (281) 654-1936

**TO: ( New Operator):**  
 N2700-Resolute Natural Resources Company  
 1675 Broadway, Suite 1950  
 Denver, CO 80202  
 Phone: 1 (303) 534-4600

**CA No.**

**Unit:**

**RATHERFORD**

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/21/2006
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/24/2006
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/7/2006
- Is the new operator registered in the State of Utah: YES Business Number: 5733505-0143
- If **NO**, the operator was contacted on: \_\_\_\_\_
- (R649-9-2) Waste Management Plan has been received on: requested
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA not yet
- Federal and Indian Units:**  
 The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
- Federal and Indian Communization Agreements ("CA"):**  
 The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/12/2006

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 6/22/2006
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/22/2006
- Bond information entered in RBDMS on: n/a
- Fee/State wells attached to bond in RBDMS on: n/a
- Injection Projects to new operator in RBDMS on: 6/22/2006
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: n/a
- Indian well(s) covered by Bond Number: PA002769
- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a
- The **FORMER** operator has requested a release of liability from their bond on: n/a  
 The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

See attached list

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Navajo Tribe

7. UNIT or CA AGREEMENT NAME:

Ratherford Unit

8. WELL NAME and NUMBER:

See attached list

9. API NUMBER:

Attached

10. FIELD AND POOL, OR WILDCAT:

Greater Aneth

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☐ OTHER Unit Agreement

2. NAME OF OPERATOR:

Resolute Natural Resources Company N2700

3. ADDRESS OF OPERATOR:

1675 Broadway, Suite 1950 CITY Denver STATE CO ZIP 80202

PHONE NUMBER:

(303) 534-4600

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See attached list

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION  | TYPE OF ACTION  |   |  |  |
|---|---|---|--|--|
| <input type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br>Approximate date work will start:<br>_____          | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |  |
|   | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> FRACTURE TREAT                   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL      |  |
|   | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARILY ABANDON           |  |
|   | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input checked="" type="checkbox"/> OPERATOR CHANGE       | <input type="checkbox"/> TUBING REPAIR                 |  |
|   | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLARE                 |  |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br>Date of work completion:<br>_____ | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL                |  |
|   | <input type="checkbox"/> CHANGE WELL STATUS             | <input type="checkbox"/> PRODUCTION (START/RESUME)        | <input type="checkbox"/> WATER SHUT-OFF                |  |
|   | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input type="checkbox"/> OTHER: _____                  |  |
|   | <input type="checkbox"/> CONVERT WELL TYPE              | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |  |  |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 1, 2006 Exxon Mobil Oil Corporation resigns as operator of the Ratherford Unit. Also effective June 1, 2006 Resolute Natural Resources Company is designated as successor operator of the Ratherford Unit.

A list of affected producing and water source wells is attached. A separate of affected injection wells is being submitted with UIC Form 5, Transfer of Authority to Inject.

As of the effective date, bond coverage for the affected wells will transfer to BIA Bond # PA002769.

NAME (PLEASE PRINT) Dwight E Mallory

TITLE Regulatory Coordinator

SIGNATURE [Signature]

DATE 4/20/2006

(This space for State use only)

APPROVED 6127106  
Earlene Russell  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

RECEIVED

APR 24 2006

DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

|   |  |  |
|---|--|--|
| 1. TYPE OF WELL<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____ |  | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br>Ship Rock |
| 2. NAME OF OPERATOR:<br>ExxonMobil Oil Corporation <i>N1855</i>   |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:<br>Ship Rock   |
| 3. ADDRESS OF OPERATOR:<br>P.O. Box 4358 CITY Houston STATE TX ZIP 77210-4358                                 |  | 7. UNIT or CA AGREEMENT NAME:<br>UTU68931A           |
| 4. LOCATION OF WELL<br>FOOTAGES AT SURFACE: _____<br>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____       |  | 8. WELL NAME and NUMBER:<br>Ratherford               |
| PHONE NUMBER:<br>(281) 654-1936   |  | 9. API NUMBER:<br>attached                           |
| COUNTY: San Juan  |  | 10. FIELD AND POOL, OR WILDCAT:<br>Aneth             |
| STATE: UTAH   |  |  |

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

| TYPE OF SUBMISSION  | TYPE OF ACTION  |   |  |
|---|---|---|--|
| <input checked="" type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br>Approximate date work will start:<br><u>6/1/2006</u> | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
|   | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> FRACTURE TREAT                   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL      |
|   | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARILY ABANDON           |
|   | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input checked="" type="checkbox"/> OPERATOR CHANGE       | <input type="checkbox"/> TUBING REPAIR                 |
|   | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLARE                 |
| <input type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br>Date of work completion: _____                           | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL                |
|   | <input type="checkbox"/> CHANGE WELL STATUS             | <input type="checkbox"/> PRODUCTION (START/RESUME)        | <input type="checkbox"/> WATER SHUT-OFF                |
|   | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input type="checkbox"/> OTHER: _____                  |
|   | <input type="checkbox"/> CONVERT WELL TYPE              | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |  |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ExxonMobil Oil Corporation is transferring operatorship of Greater Aneth field, Ratherford lease to Resolute Natural Resources Company. All change of operator notices should be made effective as of 7:00 AM MST on June 1, 2006.

Attached please find a listing of producers and water source wells included in the transfer.

|  |                                    |
|--|------------------------------------|
| NAME (PLEASE PRINT) <u>Laurie Kilbride</u> | TITLE <u>Permitting Supervisor</u> |
| SIGNATURE <u><i>Laurie B. Kilbride</i></u> | DATE <u>4/19/2006</u>              |

(This space for State use only)

**APPROVED** 6/27/06  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

**RECEIVED**  
**APR 21 2006**

DIV. OF OIL, GAS & MINING

# Ratherford Unit - Producer Well List

minus P&A's

| Lease      | Number | API #          | Status    | Lease #     | Location |     |     |         |         |         |
|------------|--------|----------------|-----------|-------------|----------|-----|-----|---------|---------|---------|
|            |        |                |           |             | Sec      | T   | R   | QTR/QTR | NSFoot  | EWFoot  |
| Ratherford | 01-14  | 430373116200S1 | Producing | 1420603246A | 1        | 41S | 23E | SWSW    | 0660FSL | 0660FWL |
| Ratherford | 01-34  | 430371638501S1 | SI        | 1420603246A | 1        | 41S | 23E | SWSE    | 1133FSL | 1980FEL |
| Ratherford | 11-41  | 430373154400S1 | Producing | 1420603246A | 11       | 41S | 23E | NENE    | 0860FNL | 0350FEL |
| Ratherford | 11-43  | 430373162201S1 | Producing | 1420603246A | 11       | 41S | 23E | NESE    | 1980FSL | 0660FEL |
| Ratherford | 12-12  | 430373119000S1 | Producing | 1420603246A | 12       | 41S | 23E | SWNW    | 1850FNL | 0660FWL |
| Ratherford | 12-14  | 430371584400S1 | SI        | 1420603246A | 12       | 41S | 23E | SWSW    | 0660FSL | 4622FEL |
| Ratherford | 12-21  | 430373120100S1 | Producing | 1420603246A | 12       | 41S | 23E | NENW    | 0660FNL | 1980FWL |
| Ratherford | 12-23  | 430371584601S1 | Producing | 1420603246A | 12       | 41S | 23E | NESW    | 1958FSL | 3300FEL |
| Ratherford | 12-32  | 430373120300S1 | Producing | 1420603246A | 12       | 41S | 23E | SWNE    | 1820FNL | 1820FEL |
| Ratherford | 12-34  | 430373112600S1 | Producing | 1420603246A | 12       | 41S | 23E | SWSE    | 0675FSL | 1905FEL |
| Ratherford | 12-43  | 430373120200S1 | SI        | 1420603246A | 12       | 41S | 23E | NESE    | 2100FSL | 0660FEL |
| Ratherford | 13-12  | 430373112701S1 | Producing | 1420603247A | 13       | 41S | 23E | SWNW    | 1705FNL | 0640FWL |
| Ratherford | 13-14  | 430373158900S1 | Producing | 1420603247A | 13       | 41S | 23E | SWSW    | 0660FSL | 0660FWL |
| Ratherford | 13-21  | 430373112801S1 | SI        | 1420603247A | 13       | 41S | 23E | NENW    | 0660FNL | 1920FWL |
| Ratherford | 13-23  | 430373112900S1 | Producing | 1420603247A | 13       | 41S | 23E | NESW    | 1980FSL | 1930FWL |
| Ratherford | 13-34  | 430373113001S1 | Producing | 1420603247A | 13       | 41S | 23E | SWSE    | 0660FSL | 1980FEL |
| Ratherford | 13-41  | 430371585601S1 | Producing | 1420603247A | 13       | 41S | 23E | NENE    | 660FNL  | 660FEL  |
| Ratherford | 13-43  | 430373113100S1 | Producing | 1420603247A | 13       | 41S | 23E | NESE    | 1700FSL | 0960FEL |
| Ratherford | 14-32  | 430371585801S1 | Producing | 1420603247A | 14       | 41S | 23E | SWNE    | 2130FNL | 1830FEL |
| Ratherford | 14-41  | 430373162300S1 | Producing | 1420603247A | 14       | 41S | 23E | NENE    | 0521FNL | 0810FEL |
| Ratherford | 24-32  | 430373159300S1 | Producing | 1420603247A | 24       | 41S | 23E | SWNE    | 2121FNL | 1846FEL |
| Ratherford | 24-41  | 430373113200S1 | Producing | 1420603247A | 24       | 41S | 23E | NENE    | 0660FNL | 0710FEL |
| Ratherford | 17-11  | 430373116900S1 | Producing | 1420603353  | 17       | 41S | 24E | NWNW    | 1075FNL | 0800FWL |
| Ratherford | 17-13  | 430373113301S1 | Producing | 1420603353  | 17       | 41S | 24E | NWSW    | 2100FSL | 0660FWL |
| Ratherford | 17-22  | 430373117001S1 | Producing | 1420603353  | 17       | 41S | 24E | SENE    | 1882FNL | 1910FWL |
| Ratherford | 17-24  | 430373104400S1 | Producing | 1420603353  | 17       | 41S | 24E | SESW    | 0720FSL | 1980FWL |
| Ratherford | 17-31  | 430373117800S1 | Producing | 1420603353  | 17       | 41S | 24E | NWNE    | 0500FNL | 1980FEL |
| Ratherford | 17-33  | 430373113400S1 | Producing | 1420603353  | 17       | 41S | 24E | NWSE    | 1980FSL | 1845FEL |
| Ratherford | 17-42  | 430373117700S1 | Producing | 1420603353  | 17       | 41S | 24E | SENE    | 1980FNL | 0660FEL |
| Ratherford | 17-44  | 430371573201S1 | Producing | 1420603353  | 17       | 41S | 24E | SESE    | 0660FSL | 0660FEL |
| Ratherford | 18-11  | 430371573300S1 | SI        | 1420603353  | 18       | 41S | 24E | NWNW    | 0720FNL | 0730FWL |
| Ratherford | 18-13  | 430371573401S1 | Producing | 1420603353  | 18       | 41S | 24E | NWSW    | 1980FSL | 0500FWL |
| Ratherford | 18-22  | 430373123600S1 | Producing | 1420603353  | 18       | 41S | 24E | SENE    | 2200FNL | 2210FWL |
| Ratherford | 18-24  | 430373107900S1 | Producing | 1420603353  | 18       | 41S | 24E | SESW    | 0760FSL | 1980FWL |
| Ratherford | 18-31  | 430373118101S1 | Producing | 1420603353  | 18       | 41S | 24E | NWNE    | 0795FNL | 2090FEL |
| Ratherford | 18-33  | 430373113501S1 | Producing | 1420603353  | 18       | 41S | 24E | NWSE    | 1870FSL | 1980FEL |
| Ratherford | 18-42  | 430373118200S1 | Producing | 1420603353  | 18       | 41S | 24E | SENE    | 2120FNL | 0745FEL |
| Ratherford | 18-44  | 430373104500S1 | SI        | 1420603353  | 18       | 41S | 24E | SESE    | 0660FSL | 0660FEL |
| Ratherford | 19-11  | 430373108000S1 | Producing | 1420603353  | 19       | 41S | 24E | NWNW    | 0660FNL | 0660FWL |
| Ratherford | 19-13  | 430373171900S1 | Producing | 1420603353  | 19       | 41S | 24E | NWSW    | 1980FSL | 0660FWL |
| Ratherford | 19-22  | 430373104601S1 | Producing | 1420603353  | 19       | 41S | 24E | SENE    | 1840FNL | 1980FWL |
| Ratherford | 19-24  | 430373175401S1 | Producing | 1420603353  | 19       | 41S | 24E | SESW    | 0600FSL | 1980FWL |
| Ratherford | 19-31  | 430373104701S1 | Producing | 1420603353  | 19       | 41S | 24E | NWNE    | 510FNL  | 1980FEL |
| Ratherford | 19-33  | 430373104800S1 | Producing | 1420603353  | 19       | 41S | 24E | NWSE    | 1980FSL | 1980FEL |
| Ratherford | 19-42  | 430373091600S1 | Producing | 1420603353  | 19       | 41S | 24E | SENE    | 1880FNL | 0660FEL |
| Ratherford | 19-44  | 430373108100S1 | Producing | 1420603353  | 19       | 41S | 24E | SESE    | 0660FSL | 0660FEL |
| Ratherford | 19-97  | 430373159600S1 | Producing | 1420603353  | 19       | 41S | 24E | SENE    | 2562FNL | 0030FEL |
| Ratherford | 20-11  | 430373104900S1 | Producing | 1420603353  | 20       | 41S | 24E | NWNW    | 0500FNL | 0660FWL |
| Ratherford | 20-13  | 430373091700S1 | Producing | 1420603353  | 20       | 41S | 24E | NWSW    | 2140FSL | 0500FWL |
| Ratherford | 20-22  | 430373093000S1 | Producing | 1420603353  | 20       | 41S | 24E | SENE    | 2020FNL | 2090FWL |
| Ratherford | 20-24  | 430373091800S1 | Producing | 1420603353  | 20       | 41S | 24E | SESW    | 0820FSL | 1820FWL |



# Ratherford Unit - Producer Well List

minus P&A's

| Lease      | Number | API #          | Status    | Lease #     | Location |     |     |         |         |         |
|------------|--------|----------------|-----------|-------------|----------|-----|-----|---------|---------|---------|
|            |        |                |           |             | Sec      | T   | R   | QTR/QTR | NSFoot  | EWFoot  |
| Ratherford | 20-31  | 430373105001S1 | Producing | 1420603353  | 20       | 41S | 24E | NWNE    | 0660FNL | 1880FEL |
| Ratherford | 20-33  | 430373093100S1 | Producing | 1420603353  | 20       | 41S | 24E | NWSE    | 1910FSL | 2140FEL |
| Ratherford | 20-42  | 430373105100S1 | Producing | 1420603353  | 20       | 41S | 24E | SENE    | 1980FNL | 0660FEL |
| Ratherford | 20-44  | 430373091501S1 | Producing | 1420603353  | 20       | 41S | 24E | SESE    | 0620FSL | 0760FEL |
| Ratherford | 20-66  | 430373159201S1 | Producing | 1420603353  | 20       | 41S | 24E | SWNW    | 1369FNL | 1221FWL |
| Ratherford | 20-68  | 430373159100S1 | Producing | 1420603353  | 20       | 41S | 24E | NWSW    | 1615FSL | 1276FWL |
|            |        |                |           |             |          |     |     |         |         |         |
| Ratherford | 15-12  | 430371571501S1 | Producing | 1420603355  | 15       | 41S | 24E | SWNW    | 1820FNL | 0500FWL |
| Ratherford | 15-22  | 430373044900S1 | SI        | 1420603355  | 15       | 41S | 24E | SENE    | 1980FNL | 2050FWL |
| Ratherford | 15-32  | 430371571700S1 | Producing | 1420603355  | 15       | 41S | 24E | SWNE    | 1980FNL | 1980FEL |
| Ratherford | 15-33  | 430371571800S1 | Producing | 1420603355  | 15       | 41S | 24E | NWSE    | 1650FSL | 1980FEL |
| Ratherford | 15-41  | 430371571900S1 | TA        | 1420603355  | 15       | 41S | 24E | NENE    | 0660FNL | 0660FEL |
| Ratherford | 15-42  | 430373044800S1 | Producing | 1420603355  | 15       | 41S | 24E | SENE    | 2020FNL | 0820FEL |
| Ratherford | 16-13  | 430373116801S1 | Producing | 1420603355  | 16       | 41S | 24E | NWSW    | 1980FSL | 660FWL  |
| Ratherford | 16-32  | 430371572300S1 | Producing | 1420603355  | 16       | 41S | 24E | SWNE    | 1980FNL | 1980FEL |
| Ratherford | 16-41  | 430371572500S1 | Producing | 1420603355  | 16       | 41S | 24E | NENE    | 0660FNL | 0660FEL |
| Ratherford | 16-77  | 430373176800S1 | Producing | 1420603355  | 16       | 41S | 24E | NESW    | 2587FSL | 2410FWL |
| Ratherford | 21-23  | 430371375400S1 | Producing | 1420603355  | 21       | 41S | 24E | NESW    | 1740FSL | 1740FWL |
| Ratherford | 21-24  | 430373172001S1 | SI        | 1420603355  | 21       | 41S | 24E | SESW    | 487FSL  | 2064FWL |
| Ratherford | 21-32  | 430371575500S1 | SI        | 1420603355  | 21       | 41S | 24E | SWNE    | 1880FNL | 1980FEL |
| Ratherford | 21-77  | 430373175801S1 | SI        | 1420603355  | 21       | 41S | 24E | NWSE    | 2511FSL | 2446FEL |
|            |        |                |           |             |          |     |     |         |         |         |
| Ratherford | 07-11  | 430373116300S1 | Producing | 1420603368  | 7        | 41S | 24E | NWNW    | 0660FNL | 0710FWL |
| Ratherford | 07-13  | 430373116400S1 | Producing | 1420603368  | 7        | 41S | 24E | NWSW    | 2110FSL | 0740FWL |
| Ratherford | 07-22  | 430373116500S1 | Producing | 1420603368  | 7        | 41S | 24E | SENE    | 1980FNL | 1980FWL |
| Ratherford | 07-24  | 430373116600S1 | Producing | 1420603368  | 7        | 41S | 24E | SESW    | 0880FSL | 2414FWL |
| Ratherford | 07-44  | 430373118900S1 | SI        | 1420603368  | 7        | 41S | 24E | SESE    | 0737FSL | 0555FEL |
| Ratherford | 08-12  | 430371599100S1 | Producing | 1420603368  | 8        | 41S | 24E | SWNW    | 1909FNL | 0520FWL |
| Ratherford | 08-21  | 430371599300S1 | Producing | 1420603368  | 8        | 41S | 24E | NENW    | 0616FNL | 1911FWL |
| Ratherford | 08-23  | 430371599400S1 | Producing | 1420603368  | 8        | 41S | 24E | NESW    | 1920FSL | 2055FWL |
| Ratherford | 08-32  | 430371599500S1 | Producing | 1420603368  | 8        | 41S | 24E | SWNE    | 1980FNL | 1980FEL |
| Ratherford | 08-34  | 430371599600S1 | Producing | 1420603368  | 8        | 41S | 24E | SWSE    | 0660FSL | 1980FEL |
|            |        |                |           |             |          |     |     |         |         |         |
| Ratherford | 04-34  | 430371616400S1 | Producing | 14206034035 | 4        | 41S | 24E | SWSE    | 0660FSL | 1980FEL |
|            |        |                |           |             |          |     |     |         |         |         |
| Ratherford | 11-14  | 430371616700S1 | Producing | 14206034037 | 11       | 41S | 24E | SWSW    | 0660FSL | 0660FWL |
|            |        |                |           |             |          |     |     |         |         |         |
| Ratherford | 09-34  | 430371571100S1 | SI        | 14206034043 | 9        | 41S | 24E | SWSE    | 0660FSL | 1980FEL |
| Ratherford | 10-12  | 430371571200S1 | Producing | 14206034043 | 10       | 41S | 24E | SWNW    | 1980FNL | 0660FWL |
| Ratherford | 10-14  | 430371571300S1 | Producing | 14206034043 | 10       | 41S | 24E | SWSW    | 0510FSL | 0710FWL |
| Ratherford | 10-32  | 430371571400S1 | TA        | 14206034043 | 10       | 41S | 24E | SWNE    | 2080FNL | 1910FEL |
| Ratherford | 10-44  | 430373045100S1 | TA        | 14206034043 | 10       | 41S | 24E | SESE    | 0820FSL | 0510FEL |
|            |        |                |           |             |          |     |     |         |         |         |
| Ratherford | 29-11  | 430373105300S1 | Producing | 1420603407  | 29       | 41S | 24E | NWNW    | 0770FNL | 0585FWL |
| Ratherford | 29-22  | 430373108200S1 | Producing | 1420603407  | 29       | 41S | 24E | SENE    | 2130FNL | 1370FWL |
| Ratherford | 29-31  | 430373091401S1 | Producing | 1420603407  | 29       | 41S | 24E | NWNE    | 0700FNL | 2140FEL |
| Ratherford | 29-33  | 430373093200S1 | SI        | 1420603407  | 29       | 41S | 24E | NWSE    | 1860FSL | 1820FEL |
| Ratherford | 29-34  | 430371534000S1 | SI        | 1420603407  | 29       | 41S | 24E | SWSE    | 0817FSL | 2096FEL |
| Ratherford | 29-42  | 430373093700S1 | SI        | 1420603407  | 29       | 41S | 24E | SENE    | 1850FNL | 0660FEL |
| Ratherford | 30-32  | 430371534200S1 | Producing | 1420603407  | 30       | 41S | 24E | SWNE    | 1975FNL | 2010FEL |
|            |        |                |           |             |          |     |     |         |         |         |
| Ratherford | 28-11  | 430373044600S1 | Producing | 1420603409  | 28       | 41S | 24E | NWNW    | 0520FNL | 0620FWL |

# Ratherford Unit - Producer Well List

minus P&A's

| Lease      | Number | API #          | Status    | Lease #     | Location |     |     |         |         |         |
|------------|--------|----------------|-----------|-------------|----------|-----|-----|---------|---------|---------|
|            |        |                |           |             | Sec      | T   | R   | QTR/QTR | NSFoot  | EWFoot  |
| Ratherford | 09-12  | 430371512600S1 | Producing | 14206035045 | 9        | 41S | 24E | SWNW    | 1865FNL | 0780FWL |
| Ratherford | 09-14  | 430371512700S1 | Producing | 14206035046 | 9        | 41S | 24E | SWSW    | 0695FSL | 0695FWL |
| Ratherford | 04-14  | 430371616300S1 | Producing | 14206035446 | 4        | 41S | 24E | SWSW    | 0500FSL | 0660FWL |
| Ratherford | 03-12  | 430371562000S1 | Producing | 14206036506 | 3        | 41S | 24E | SWNW    | 2140FNL | 0660FWL |

## Water Source Wells (Feb 2006)

|    |     |            |        |
|----|-----|------------|--------|
| RU | S1  | 4303700001 | Active |
| RU | S2  | 4303700002 | Active |
| RU | S3  | 4303700003 | Active |
| RU | S4  | 4303700004 | Active |
| RU | S5  | 4303700005 | Active |
| RU | S6  | 4303700006 | Active |
| RU | S7  | 4303700007 | Active |
| RU | S8  | 4303700008 | Active |
| RU | S9  | 4303700009 | Active |
| RU | S10 | 4303700010 | Active |
| RU | S11 | 4303700011 | Active |
| RU | S12 | 4303700012 | Active |
| RU | S13 | 4303700013 | Active |
| RU | S14 | 4303700014 | Active |
| RU | S16 | 4303700016 | Active |
| RU | S17 | 4303700017 | Active |